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REPORT

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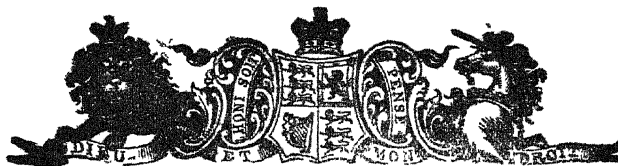


SANITARY ADMINISTRATION OF THE PUNJAB

FOR THE YEAR 1898.

BY

LIEUT.-COLONEL C. J. BAMBER, I.M.S.,
Offg. Sanitary Commissioner, Punjab.



L a h o r e :

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READ—

The Report on the Sanitary Administration of the Province for the year 1898, by Lieutenant-Colonel C. J. BAMBER, I. M. S., Officiating Sanitary Commissioner, Punjab.

REMARKS.—*Births*.—There was a decrease of 32,754 in the recorded number of births as compared with the year 1897, and a falling-off of 16 in the birth-rate per 1,000 of population. The rate was also 0·7 less than the mean average birth-rate per *mille* of the last five years. Nevertheless the Punjab sustained its reputation as holding the first place in regard to its birth-rate of all the Provinces in India. The explanation that the scarcity which prevailed in the year prior to the year under review (1897) may account for the decrease in the birth-rate cannot, however, be accepted as correct when it is considered that the birth-rate in the two districts which suffered most from scarcity in 1897 (Gujrât and Hissar) show a higher birth-rate in 1898—

| | 1897. | 1898. |
|---------------|-------|-------|
| Gujrât | 35·7 | 38·1 |
| Hissar | 33·9 | 43·2 |

Again, if Provinces are taken, it is found that the North-Western Provinces and the Central Provinces, which suffered most severely from famine in 1897, show a higher birth-rate in 1898—

| | 1897. | 1898. |
|-----------------------------|-------|-------|
| North-Western Provinces ... | 31·10 | 37·35 |
| Central Provinces ... | 26·66 | 29·61 |

2. Some of the fluctuations in the table in paragraph 3 giving the birth-rates in districts are remarkable. For example, Mooltan, which stood 4th in order of rate in 1897 with 48·5 this year, drops to the 16th place with a rate of only 39. Muzaffargarh stood 8th in 1897, with 47·2; it is now 35·1, or 22nd. These two districts adjoin, and it would be undoubtedly satisfactory if some assignable cause for this heavy fall in the birth-rate in this part of the Province could be put forward; nevertheless His Honor sees no reason to question the claim of the Sanitary Commissioner that birth registration in the districts generally is more accurate than it was some years ago. The table appended to paragraph 5 of the Report also exhibits considerable fluctuations in respect to the birth-rates registered in the principal towns, but the Lieutenant-Governor observes that the population of particular towns fluctuates a good deal, and at the same time it is almost certain that the statistics for towns are more accurate than for the rural tracts. If then there is reason to think that on the whole the statistics are improving, he would be inclined to say that what is wrong in the towns is the assumed population, not the registration of deaths. The fact that the calculations have to be made on the figures of the census of 1891 accounts for a great deal in these days, when great changes are going on in consequence of the construction of railways and canals.

With regard to the towns that show a birth-rate considerably below the average it is difficult to understand why birth registration should be more defective in Lahore than, say, in a place like Palwal. There should, His Honor considers, be no excuse for defective registration in such towns as Lahore, Râwalpindi and Peshâwar.

3. *Deaths*.—The death-rate was the same as in the year 1897, *vis.*, 31·05, the actual number of deaths registered having been 638,124, or 103 less than in the previous year. It would have been interesting had the Sanitary Commissioner worked

out the causes which led to Dera Ismail Khan being the most unhealthy district in the Province both in 1897 and 1898. Although the district has a bad reputation for a virulent form of fever, it seems possible that there may be something wrong about the figures. The death-rate for the whole Province for 1897 and 1898 is practically the same, yet the death-rate of the most unhealthy district drops from 50·18 per 1,000 in the former year to 40·11 in the latter, or 10·09 less than it was in 1897. It is remarkable that there were over 5,000 more deaths from fever in Gujranwála in 1898 than in 1897. This district now stands 7th in order of mortality from fever; in the year 1897 it stood 17th. In view of the possibility of the recently opened Chenab Canal having something to do with this, the water level in this tract is being observed with special reference to the question of the effect of irrigation on the public health. In any case, however, the vital statistics of the district should be carefully watched in future, and the Lieutenant-Governor wishes the Sanitary Commissioner to bear this in mind. The deduction drawn in paragraph 12 of the Report between the results of registration in England and Wales and the Punjab are, His Honor observes, about the most encouraging proof of improved registration in the Punjab.

4. *Death-rate among Native Christians and other classes.*—With

Paragraphs 13 and 14

reference to the remark in the Report that there is no reason why Native Christians should be healthier than other natives, His Honor observes that this a moot point. Whatever may be said to the contrary, the fact remains that the figures *do* show that both in 1897 and 1898 the mortality among Native Christians is comparatively low. This class, too, it would be supposed, realises the importance of observing sanitary laws, it lives more or less under the eye of Europeans, and is less conservative as regards objectionable habits and customs which Sanitary authorities condemn in the less educated native classes. The alleged fact that the high death-rate under other classes (114·55 in 1897; 79·61 in 1898) is due to an error of classification of population requires careful examination, as it must in a great degree vitiate the whole of the figures.

5. *Registration among Europeans and in Cantonments*—His Honor is

Paragraphs 15 and 16

glad to observe that the European population is paying more attention to the registration of their births and deaths. He, however, cannot understand why registration should be so defective in cantonments. Those residing within such limits are surely more under control, and more likely to give correct information than those living in ordinary villages and towns. The Lieutenant-Governor thinks there can be no good reason for the defect, and desires that efforts should be made to ascertain the causes and remove them.

6. *Inspections.*—If each alleged inspection shown in the table attached

Paragraph 17.

to paragraph 17 of the Report is a separate and distinct one, that is, if the superior inspecting agent's second inspection of work already inspected is not shown as a second inspection, and if these figures can be relied upon for accuracy, they show that the checking of birth registration is very complete in the Punjab, as only 6·3 per cent. of the total recorded births were not checked. The figures appear, however, to be open to doubt. Take the Lahore Division for instance. There were altogether 198,790 births registered in the year (see Annual Form No. 1), and yet vaccinators *alone* are reported to have inspected 254,283 entries of birth. His Honor will be glad to receive any explanation the Sanitary Commissioner may have to offer.

7. *Chief Diseases.*—The year was again on the whole a healthy one as in

Paragraphs 19 to 29.

1897. There were only 33 deaths from cholera: small-pox was much less prevalent than in 1897, and there was less fever, though the mortality from this cause was as usual severe, 418,206 deaths having been registered from it. Dysentery and diarrhoea prevailed to much the same extent as in 1897. The outbreak of bubonic plague which occurred in October 1897 and continued throughout the year under report, has been described in reports by Major Inglis, I.S. C., and Captain James, I.M.S.,

and the Lieutenant-Governor's remarks on the subject were recorded in the Proceedings of this Government in the Home (Medical and Sanitary) Department, No. 1479 F, dated 17th December 1893. It is sufficient to say here that the disease never extended beyond the Garhshankar Tahsíl of Hoshiárpur, and the Nawashahr and a small part of the Phillour Tahsíl of Jullundur; that its increase began in February, became serious in March and April, and reached culminating point in the first ten days of May, after which there was a steady fall till a reduction in the staff on plague duty became feasible in the middle of July; thereafter, that the disease was kept alive by a chain of sporadic cases, mostly of a mild type, till towards the end of the year, when it began again to assume a menacing form and made it evident that it had obtained a hold on the municipal town of Ráhon. Its history during the current year has been similar, though the area of infection has been much more circumscribed and the period of virulence markedly shorter.

8. *Injuries*.—Under this head it is only necessary to note with reference to the allusion to the proposed Pasteur Institute for India in paragraph 35 that it is understood that this matter is still engaging the attention of the Government of India.

9. *Sanitary Works*.—In discussing the Sanitary Commissioner's Report for 1896 the Army Sanitary Commission drew attention to the indefiniteness of the conclusions given by the endeavour to show from vital statistics the influence on general health exercised by drainage schemes and the provision of water supplies. Improved registration of deaths may obscure the real facts: and the unwillingness of the people, as a whole, to use pipe water particularly on its first introduction tends to discount the value of a pure supply. When, however, as is the case with some of the figures accompanying paragraph 43 of the Report now under review, there is *prima facie* evidence of a deterioration in health in certain respects in particular localities where sanitary improvements have been effected, the matter is one which deserves investigation. In the words of the Sanitary Commissioner with the Government of India in paragraph 206 of his Report for 1896: "There may be no real improvement in the quality of the water consumed, or some condition detrimental to the public health may have accompanied introduction of an improved supply of water. In most of the towns it may be concluded from the amount of water per head that is taken from the works that a mixed supply is being used, and this is an unmixed evil, for the old sources of water are much less likely to be conserved than they were before the introduction of new supplies. It may be that sufficient care is not bestowed upon the works Water-supply works require expert management, and to entrust their control to a man who knows nothing of hydraulics and less about the delicate working of a filter bed is to court disaster, however skilfully and economically the pumping engines may be managed. Again, drainage may be at fault, where a greatly increased quantity of water is brought into a town before adequate means to remove it have been provided." It is at all events desirable to investigate and either confirm or dispel any suspicion which figures may suggest that large measures of drainage and water-supply have not achieved all that was expected of them.

10. In the case of Peshawar City it is not possible to draw any conclusions from the figures in paragraph 43 of the Report under review. The drainage works were completed in 1888 and the water-works four years later, and it is not clear for what quinquennial periods the average annual death rates prior and subsequent to the improvements have been calculated. The figures which were incorporated in paragraph 14 of the Review of the Report for 1897, however, showed that the death-rate from fever for the quinquennial period prior to the completion of the drainage was 19·26; for the period between the completion of the drainage and the completion of the water-supply it rose to 22·57; while for the next period up to and including the year 1897 it fell to 22·37. In 1898 it fell further to 20·72. In the Province generally the rate was 20·35 against 20·57 in 1897: in the Pesháwar District alone it was 19·69 against 18·16 in the preceding year.

The rate for dysentery and diarrhoea in Pesháwar City fell from 1·5 (for the quinquennial period before 1888) to 1·65 after the completion of the drainage, and to 1·31 for the period after the completion of the water-supply and prior to the year under review. In 1898 the rate was only 1·28, so that the decrease has been well maintained. In the district of Pesháwar generally there appears to have been no corresponding fall. The rate for the quinquennial period prior to 1897 was 0·22, for 1897 it was 0·23, and for 1898 the same.

So far as figures show there was no improvement under the head of cholera in Pesháwar City after the introduction of the drainage system ; but this would hardly have been expected. After the completion of the water-supply, however, the rate fell from 1·40 to 0·76 (for the period ending with 1897), and there were no cases at all in 1898. These results are on the whole encouraging.

11. The good results of drainage are particularly noticeable in the reduction of the mortality from fevers in Ludhiána, Amritsar, Gujránwála and Kohát, and in the case of six so-called rural circles named in the tabular statement in paragraph 43 they are almost phenomenal. All these places show an improvement also under the head of cholera, and most of them under the head of dysentery and diarrhoea too. In the case of Kohát the combined effect of drainage and water-supply have, on the face of the figures, been seen in a reduction of the cholera mortality from 6·5 to *nil* : but the fact is that there has been no serious epidemic of cholera in the Province since the year before the Kohát water-supply was completed.

12. Cases in which drainage has *primâ facie* failed are Siálkot (where the fever mortality has risen from 9·3 to 16·9, though the figure for dysentery and diarrhoea has fallen from 3·5 to 2·8), Jullundur (where the fever rate has risen from 15·9 to 18·0), and Banga (where fever has remained practically stationary, though dysentery and diarrhoea have risen from 2·7 to 3·8). The Lieutenant-Governor will be glad if the Sanitary Board will investigate and report on the circumstances of these three places.

13. In considering the effects of a pure water-supply the Lieutenant-Governor thinks it necessary to leave out of account the figures for fevers in hill stations. Hill stations have a large transient population, and the amount of malaria is affected at least as much by the conditions under which that population lives during the cold weather as by the conditions of their summer residence. The improvement at Simla and Dunera and the deterioration at Dalhousie and Murree, under this head, furnish no reliable evidence of the results of a pure water-supply : and the case of Kálka is probably similar. On the other hand, the absence of improvement under the head of dysentery and diarrhoea at Dalhousie, and the marked increase under these heads in Murree, will call for enquiry if the phenomena continue.

14. The improvement effected by the water-supply in Delhi, Umballa, Lahore and Haripur has been very marked. In Ráwalpindi, however (where the water-supply was completed as long ago as 1887), the death-rate from fevers has risen from 16·4 to 22·5, though dysentery and diarrhoea have diminished. Abbottabad also shows a slight deterioration and an improvement under these two heads respectively. The case of Ráwalpindi, like those of Siálkot, Jullundur and Banga, merits the attention of the Sanitary Board, and the Lieutenant-Governor will be glad to have the views of that body on the subject.

15. *Quinine sales.*—In paragraph 15 of His Honor's Review on the Sanitary Report for the year 1897 it was reported that the scheme of selling quinine to the people by Postal agency had failed consequent, among other causes, on its having had to compete with the free distribution of the drug at the dispensaries : it was, however, added that His Honor was unwilling to see this effort to bring quinine within reach of people at remote places abandoned, and that a scheme that would relieve the Postal agency of undue competition was under consideration. This scheme, which comprises the sale of the drug at all Branch Post Offices and Sub-Post Offices at places where there are no public

Paragraph 5a.

dispensaries, the free issue of the drug being suspended except at the dispensaries, it only being given there free to those who cannot afford to pay for it, was introduced into the Delhi and Lahore Divisions in the month of March last. The result of this further experimental measure to make the drug readily accessible to the people will not be known until the end of the current year.

16. *Rewards*.—The replies of District Officers on the subject of rewards to village communities for zeal in sanitation indicate some misapprehension of the suggestion put forward in Punjab Government Circular, Medical and Sanitary, No. 1480, dated 15th December 1897. It was there remarked that the rewards so far granted from District Funds had taken the shape of the grant of khillats and sanads to selected village headmen and others somewhat on the principle on which rewards are given to individuals who have constructed work of public utility at their own expense ; but that the original proposal of the Sanitary Board had been not for the reward of individuals but of entire villa communities. It was therefore requested that one District Board in each Division should try the experiment of offering to pay a considerable fraction of the revenue demand of the one village in each tahsil of the district which showed the best results in sanitary improvement in the year 1898. From several districts reports have been received which show that the distinction between rewards to headmen and other prominent individuals and rewards to whole village communities has not been appreciated. Sir Mackworth Young does not doubt that there are many instances in which rewards to prominent individuals are more likely to stimulate activity than any concession to the community as a whole, but he thinks the other experiment should also have a trial in each Division during the current or the coming year, and he commends these remarks to the consideration of Commissioners and Deputy Commissioners. The Sanitary Commissioner should ascertain and report the action taken.

Rewards of Rs. 125 each were given by the District Board of Hoshiarpur to four village communities in that district for attention to sanitation during the year. In no other district were rewards actually given, though in some cases budget provision was made for expenditure under this head, but not utilised owing to the lack of interest displayed in the matter by the rural population. Sir Mackworth Young thinks it would be a good thing if, when offering the reward, the District Board were to lay down in consultation with the Civil Surgeon the points upon which stress would be laid in awarding the prize. The Sanitary Board will be asked to formulate general instructions on this subject, but Civil Surgeons should be at liberty to suggest modifications of detail in order to suit local circumstances.

17. *Sanitary Board*.—The remarks of the Government of India on the work of the Sanitary Board which were recorded in Mr. Fraser's letter No. 4302, dated the 5th of November 1898, are under Sir Mackworth Young's consideration. At present he awaits the suggestions of the Board. The Board has never discharged other than consultative functions in the Punjab, but the question of extending the scope of its work will now receive attention. The Lieutenant-Governor regrets that the Board did not meet during 1898 and is enquiring why.

18. In conclusion, the Lieutenant-Governor desires to convey his acknowledgments to Lieutenant-Colonel Bamber for his Report and his thanks to the Department for the good work done by it during the year.

ORDER.—Ordered, that a copy of the foregoing Remarks be circulated with the Report and furnished with the usual number of copies of the Report to the Government of India ; also that the Review be published in the *Punjab Government Gazette*.

Ordered also, that a copy be forwarded to the Sanitary Commissioner, Punjab, for information and guidance in regard to the points indicated.

By order of the Hon'ble the Lieutenant-Governor,

H. J. MAYNARD,

Judicial and Genl. Secy. to Govt., Punjab.

Section I.—Meteorology.

No Remarks.

Section II.—European Army.

No Remarks.

Section III.—Native Army.

No Remarks.

Section IV.—Jails.

No Remarks.

ERRATA.

In para. 51, page 23, line 4 below the table, after the word "was" *add* "Jhang "

In Annual Form No. IV, column 8, under "20 years and 30 years" total of the Province, for "317 males" *read* "17,317"

In Annual Form No. XI, population of Fázilka, for "7,568" *read* "7,563"

Appendix A in Delhi District in the Jataula village, column "60 and upwards," *read* 1 female.

In the same district, in column total of female births for "1,438" *read* "1,425," and for total births in the same column, instead of "2,959" *read* "2,949."

In the same Appendix, District Karnal, village Isrána, for "83," No. of female births, *read* "33."

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Section V.—General Population.

BIRTHS.

1. There were 841,869 births registered in the Province in 1898, giving a birth-rate of 41·0 per *mille* of population. In the year preceding the number was 874,623 or 42·6 per *mille*. The mean average birth-rate for the past five years was 41·7 per *mille*. The male births in 1898 were 441,732 and the female 400,137. There has been a decrease in the recorded number of births as compared with 1897 of 32,754. During a year of comparative plenty and in the absence of any unusual epidemic, the number of births might be expected to show an increase instead of a falling off. But the birth-rate of any one year is affected by the influences prevailing during the preceding year. Thus the scarcity of 1897 might account for this decrease.

2. Compared with the other Provinces of India the Punjab again takes first place as regards its birth-rate, as will be seen from the figures noted in the following table:—

| <i>Birth-rate per mille.</i> | | | | | <i>Birth-rate per mille.</i> | | | | |
|----------------------------------|-----|-----|-----|-------|----------------------------------|-----|-----|-------|--|
| Punjab | ... | ... | ... | 41·0 | Central Provinces | ... | ... | 29·61 | |
| Bengal | ... | ... | ... | 35·79 | Madras | ... | ... | 27·4 | |
| North-Western Provinces and Oudh | ... | ... | ... | 37·35 | Bombay | ... | ... | 30·94 | |
| Assam | ... | ... | ... | 29·46 | | | | | |

Districts with high birth-rates arranged in order of sequence.

3 The districts which show a birth-rate of over 40 per *mille*, between 30 and 40 per *mille*, and below 30 per *mille* are given in the following table:—

| <i>Birth-rates over 40 per mille</i> | | | <i>Birth-rates between 30 and 40.</i> | | | <i>Birth-rates below 30 per mille.</i> | | |
|--------------------------------------|-----|------|---------------------------------------|-----|------|--|-----|------|
| 1. Gujranwála | ... | 53·8 | 1. Hoshiárpur | ... | 39·1 | 1. Simla | ... | 21·8 |
| 2. Jhang | ... | 53·4 | 2. Mooltan | ... | 39·0 | 2. Pesháwar | ... | 29·8 |
| 3. Gurgáon | ... | 53·0 | 3. Shahpur | ... | 39·0 | | | |
| 4. Rohtak | ... | 45·8 | 4. Gujrá | ... | 38·1 | | | |
| 5. Ferozepore | ... | 45·7 | 5. Montgomery | ... | 37·8 | | | |
| 6. Amritsar | ... | 45·1 | 6. Umballa | ... | 36·7 | | | |
| 7. Karnál | ... | 42·8 | 7. Bannu | ... | 35·5 | | | |
| 8. Siálkot | ... | 44·9 | 8. Muzaffargarh | ... | 35·1 | | | |
| 9. Lahore | ... | 44·3 | 9. Kángra | ... | 35·0 | | | |
| 10. Gurdáspur | ... | 43·5 | 10. Hazára | ... | 35·0 | | | |
| 11. Hissár | ... | 43·2 | 11. Kohát | ... | 34·9 | | | |
| 12. Delhi | ... | 44·9 | 12. Ráwalpindi | ... | 34·1 | | | |
| 13. Ludhiána | ... | 42·6 | 13. Jhelum | ... | 33·6 | | | |
| 14. Jullundur | ... | 42·1 | 14. D. I. Khan | ... | 30·6 | | | |
| | | | 15. D. G. Khan | ... | 30·6 | | | |

Fourteen districts give a birth-rate varying between 53·8 and 42·1, 15 districts had a birth-rate between 30 and 40, while the districts of Simla and Pesháwar showed birth-rates of 21·8 and 29·8, respectively. The low birth-rate of Simla is, as has been noticed in previous reports, due to the preponderance of the male over the female population, and with regard to Pesháwar it may be said that the population being chiefly Muhammadans of the Afghán type, they are most averse to register their births and deaths, female births more particularly.

4. The above table when compared with the statistics of the previous decade, however, affords the satisfactory information that birth registration in the districts is certainly more accurate (it is in some districts even above the normal standard) than it was ten years ago.

With continued zeal and perseverance we have obtained in this Province, at any rate, a fairly accurate system of birth registration on which reliable statistics can be worked, and it is interesting to note that in all the districts of this Province, the births are more numerous than the deaths, except in Dera Ismail Khan, where the deaths exceed the births: in six districts the births exceed the deaths by over 15 per *mille*, in thirteen districts by between 10 and 15, and in the rest by less than 10 per *mille*.

5. The following table shows the birth-rates registered in the principal towns and hill sanatoria of the Punjab from 1888 to 1897, together with the average for these ten years, and the birth-rate for 1898:—

| No. | DISTRICTS | Towns. | Population according to the Census of 1891 | BIRTH-RATE FOR PREVIOUS 10 YEARS FROM 1888 TO 1897. | | | | | | | | | | | Average birth-rate for 10 years. | Birth-rate for 1898. |
|-----|------------|------------------|--|---|-------|-------|------|------|------|-------|-------|-------|-------|----|----------------------------------|----------------------|
| | | | | 1888 | 1889. | 1890. | 1891 | 1892 | 1893 | 1894. | 1895. | 1896. | 1897. | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
| 1 | HISSAR | Hissar | 16,854 | 33 | 27 | 32 | 28 | 32 | 45 | 47 | 46 | 43 | 35 | 37 | 33 | |
| 2 | | Hánsi | 15,190 | 39 | 41 | 46 | 36 | 38 | 32 | 43 | 43 | 42 | 37 | 40 | 43 | |
| 3 | | Bhirwán | 35,487 | 39 | 38 | 36 | 33 | 35 | 37 | 37 | 35 | 34 | 28 | 35 | 32 | |
| 4 | | Susa | 16,413 | 36 | 42 | 43 | 34 | 41 | 33 | 43 | 40 | 43 | 40 | 40 | 34 | |
| 5 | ROHTAK | Rohtak | 16,191 | 38 | 37 | 35 | 43 | 44 | 45 | 46 | 48 | 41 | 39 | 42 | 48 | |
| 6 | | Jhajjar | 11,881 | 37 | 48 | 43 | 45 | 42 | 46 | 47 | 46 | 43 | 42 | 44 | 39 | |
| 7 | GURGAON | Rewári | 27,984 | 34 | 37 | 38 | 33 | 37 | 41 | 41 | 42 | 36 | 28 | 37 | 29 | |
| 8 | | Pálwal | 11,227 | 32 | 42 | 49 | 41 | 46 | 51 | 51 | 56 | 53 | 47 | 47 | 47 | |
| 9 | DELHI | Delhi | 189,648 | 37 | 39 | 37 | 36 | 33 | 38 | 41 | 39 | 41 | 41 | 38 | 38 | |
| 10 | | Sonepít | 12,611 | 29 | 41 | 43 | 46 | 40 | 53 | 51 | 41 | 47 | 44 | 44 | 44 | |
| 11 | KARNAL | Karnál | 21,330 | 30 | 33 | 35 | 35 | 38 | 45 | 49 | 43 | 46 | 50 | 40 | 43 | |
| 12 | | Kaithal | 15,768 | 39 | 42 | 34 | 45 | 51 | 57 | 57 | 53 | 51 | 48 | 48 | 48 | |
| 13 | | Pámpat | 27,547 | 33 | 37 | 33 | 31 | 47 | 53 | 51 | 51 | 51 | 47 | 43 | 43 | |
| 14 | | Shahabad | 11,473 | 24 | 27 | 22 | 38 | 36 | 43 | 35 | 32 | 34 | 40 | 33 | 30 | |
| 15 | UMBALLA | Umballa | 26,556 | 40 | 40 | 36 | 39 | 42 | 42 | 43 | 43 | 39 | 41 | 41 | 36 | |
| 16 | | Jagadhí | 13,029 | 34 | 32 | 32 | 32 | 36 | 38 | 39 | 32 | 28 | 30 | 33 | 28 | |
| 17 | | Sídhauria | 10,445 | 27 | 33 | 31 | 32 | 25 | 31 | 34 | 27 | 52 | 32 | 30 | 26 | |
| 18 | HOSHIARPUR | Hoshiápur | 17,546 | 38 | 40 | 40 | 38 | 41 | 41 | 38 | 35 | 34 | 37 | 39 | 34 | |
| 19 | | Tánda and Úmar | 11,632 | 41 | 52 | 47 | 41 | 40 | 32 | 39 | 30 | 33 | 34 | 39 | 36 | |
| 20 | JULLUNDUR | Jullundur | 50,375 | 56 | 57 | 60 | 46 | 46 | 46 | 48 | 43 | 45 | 45 | 49 | 41 | |
| 21 | | Ráhon | 10,667 | 29 | 31 | 35 | 39 | 36 | 39 | 48 | 36 | 38 | 37 | 37 | 31 | |
| 22 | | Kartápur | 10,441 | 34 | 38 | 37 | 41 | 38 | 37 | 41 | 30 | 35 | 34 | 36 | 34 | |
| 23 | LUDHIANA | Ludhíana | 46,024 | 38 | 40 | 44 | 36 | 40 | 34 | 44 | 43 | 42 | 37 | 40 | 31 | |
| 24 | | Jagrón | 18,116 | 46 | 47 | 47 | 43 | 46 | 46 | 49 | 47 | 44 | 47 | 46 | 43 | |
| 25 | FEROZPORE | Ferozepore | 25,337 | 41 | 35 | 37 | 33 | 33 | 25 | 36 | 37 | 37 | 38 | 35 | 26 | |
| 26 | MOOLTAN | Mooltan | 64,265 | 48 | 48 | 46 | 43 | 42 | 38 | 48 | 48 | 48 | 49 | 46 | 42 | |
| 27 | JHANG | Maghiana | 13,866 | 48 | 48 | 49 | 41 | 38 | 41 | 54 | 51 | 53 | 51 | 47 | 45 | |
| 28 | | Chuníot | 13,476 | 50 | 52 | 51 | 40 | 10 | 38 | 51 | 57 | 49 | 56 | 48 | 54 | |
| 29 | LAHORE | Lahore | 159,597 | 23 | 31 | 28 | 27 | 34 | 31 | 34 | 35 | 36 | 35 | 32 | 32 | |
| 30 | | Kasúr | 20,290 | 42 | 42 | 38 | 39 | 44 | 36 | 39 | 40 | 45 | 42 | 41 | 40 | |
| 31 | | Chúmnán | 10,339 | 34 | 44 | 44 | 44 | 41 | 58 | 56 | 58 | 60 | 50 | 54 | 54 | |
| 32 | AMRITSAR | Amritsar | 135,401 | 35 | 40 | 39 | 39 | 43 | 38 | 45 | 40 | 45 | 43 | 41 | 41 | |
| 33 | GURDASPUR | Batála | 27,223 | 45 | 53 | 48 | 43 | 43 | 40 | 51 | 38 | 48 | 42 | 45 | 42 | |
| 34 | SIALKOT | Sialkót | 33,965 | 43 | 43 | 43 | 42 | 49 | 49 | 54 | 56 | 56 | 56 | 49 | 53 | |
| 35 | GUJRAT | Gujrát | 17,671 | 39 | 43 | 32 | 26 | 50 | 38 | 47 | 42 | 46 | 50 | 41 | 45 | |
| 36 | | Jalápur | 11,065 | 39 | 43 | 40 | 34 | 49 | 38 | 48 | 49 | 45 | 44 | 43 | 40 | |
| 37 | GUJRANWALA | Gujránwála | 25,892 | 42 | 42 | 45 | 30 | 44 | 35 | 44 | 45 | 45 | 41 | 41 | 37 | |
| 38 | | Wazírabád | 15,786 | 32 | 37 | 40 | 37 | 46 | 32 | 40 | 41 | 45 | 52 | 40 | 39 | |
| 39 | SHAHPUK | Bhera | 17,428 | 53 | 55 | 49 | 42 | 41 | 36 | 45 | 43 | 42 | 46 | 45 | 37 | |
| 40 | JHELUM | Pind Dádan Khan | 15,055 | 28 | 27 | 26 | 36 | 38 | 32 | 38 | 37 | 36 | 35 | 33 | 27 | |
| 41 | RAWALPINDI | Ráwalpindi | 38,334 | 41 | 32 | 34 | 29 | 31 | 21 | 35 | 34 | 34 | 31 | 33 | 26 | |
| 42 | PESHAWAR | Pesháwar | 63,079 | 31 | 28 | 35 | 32 | 31 | 30 | 33 | 36 | 39 | 33 | 33 | 29 | |
| 43 | KOHAT | Kohát | 14,347 | 27 | 31 | 34 | 26 | 34 | 24 | 30 | 30 | 36 | 36 | 31 | 26 | |
| 44 | D. I. KHAN | Dera Ismail Khan | 21,573 | 26 | 27 | 28 | 36 | 41 | 41 | 17 | 48 | 51 | 67 | 41 | 33 | |
| 45 | D. G. KHAN | Dera Ghází Khan | 23,899 | 36 | 29 | 32 | 29 | 36 | 28 | 35 | 37 | 36 | 37 | 34 | 21 | |
| | | MEAN | 1,412,775 | 37 | 39 | 39 | 36 | 39 | 37 | 42 | 41 | 42 | 41 | 39 | 37 | |
| | | Hill Sanitaria. | | | | | | | | | | | | | | |
| | Simla | ... | 13,279 | 11 | 12 | 13 | 13 | 15 | 18 | 18 | 20 | 17 | 20 | 16 | 22 | |
| | Dharmasála | ... | 2,778 | 28 | 28 | 25 | 27 | 32 | 33 | 37 | 43 | 41 | 41 | 34 | 42 | |
| | Dalhousie | ... | 807 | 5 | 9 | 10 | 2 | 26 | 26 | 27 | 25 | 29 | 22 | 18 | 21 | |
| | Murree | ... | 1,459 | 11 | 7 | 8 | 11 | 21 | 16 | 17 | 21 | 29 | 31 | 17 | 28 | |

It will be seen from the above statement that the towns that have registered the highest average birth-rates are Chunián (50) per *mille*, Jullundur (49), Siálkot (49), Kaithal (48), Chiníot (48), Palwal (47), Maghiána (47), Jagráon (46), Mooltan (46), Batála (45), Bhera (45), Jhajjar (44), Sonepat (44).

The towns that show a birth-rate considerably below the average are Sádhaúra (30), Kohát (31), Lahore (32), Shakabad (33), Jagádhri (33), Pind Dádan Khan (33), Ráwalpindi (33), Pesháwar (33), Dera Gházi Khan (34). The low birth-rate in these towns is undoubtedly due, to a very great extent, to defective registration. But there is another cause that partly accounts for the low rates. In some of our towns there is a large preponderance of the male over the female population. Correcting the male population in the towns according to the proportion which it bears to the female population in the Province generally, the difference in the recorded birth-rate and the birth-rate calculated on the corrected population is most marked in the towns of Ráwalpindi and Lahore, in which the corrected ratios are 34 and 36 as compared with the recorded rates for 1898 of 26 and 32. In the hill sanitaría, in which the male population considerably exceeds the female, the ratios on the corrected population were Simla 39, Dharmasala 58, Dalhousie 30 and Murree 38, as compared with the recorded rates of 22, 42, 21 and 28, respectively. There is another point which must be borne in mind. The population on which our ratios are calculated is according to the census of 1891, or nearly eight years old. As a new census will take place in a couple of years (1901), I have not thought it necessary to give a statement showing the birth and death-rates for each town and rural circle separately calculated on the estimated population, as is done in England, or to make any criticism on the accuracy of the figures in which the birth-rate has been calculated for the present and the preceding years, but I may remark that during the last decennium, and that is the only decennium from which an increase in the population of the towns can be estimated, there was an increase of nearly 9 per cent., so that an increase of 7 per cent. over the recorded ratios would probably represent the true figures.

With the view to find out the proportion of children born dead according to sexes, I had a statement prepared showing this information. As the still-births are not included in our returns in accordance with the orders of the Government of India, sufficient care has not been taken by the Registration Moharrirs in any of the districts to accurately record the information. The attention of Civil Surgeons has been drawn to this matter, as an unusually small rate of male as compared with the female still-births would furnish a clue to infanticide, in those places where this practice still prevails.

DEATHS.

6. There were 638,124 deaths registered in the Province during the year 1898. In 1897 638,227 deaths or only 103 more than in 1898 were recorded, the death-rates for the two years being exactly the same, *viz.*, 31·05. Of the total deaths registered 330,018 were males and 308,106 females against 326,924 and 311,303, respectively, in the previous year.

7. The ratios of mortality recorded in other Provinces of India during the year 1898 appear in the following table along with the ratio of this Province :—

| | | | |
|-----------------------|-------|----------------------------------|-------|
| Bombay | 29·16 | Bengal | 26·57 |
| Madras | 21·0 | North-Western Provinces and Oudh | 27·38 |
| Central Provinces ... | 23·30 | Punjab | 31·05 |
| Assam | 36·15 | | |

8. In 1898 the death-rates of males per 1,000 males living was 29·9 and of females per 1,000 females living 32·4; against 29·6 and 32·7 in 1897. For every 100 females who died 107·1 deaths among males were registered. These proportions, however, vary considerably, the excess of male deaths over females being most marked in Simla, 143·6, in Pesháwar, 128·8 and in Dera Gházi Khan 124·5. As a comparison it may be stated that the rates in England and Wales during the 10 years, ending 1885 to 1894, were 112 deaths of males to every 100 deaths of females.

The high and low death-rates of some of the towns.

9. In the following table are shown those districts which had death-rates of 30 and over per *mille* and those having rates of under 30 :—

Districts with death-rates of 30 and over.

| | | | |
|------------------|-----|-----|-------|
| Dera Ismail Khan | ... | ... | 40·11 |
| Jhang | ... | ... | 39·39 |
| Karnál | ... | ... | 37·92 |
| Gujránwála | ... | ... | 36·85 |
| Gurgáon | ... | ... | 36·53 |
| Amritsar | ... | ... | 33·91 |
| Delhi | ... | ... | 33·26 |
| Siálkot | ... | ... | 33·17 |
| Bannu | ... | ... | 32·95 |
| Gurdáspur | ... | ... | 32·73 |
| Ludhiána | ... | ... | 32·31 |
| Lahore | ... | ... | 32·17 |
| Kohát | ... | ... | 31·21 |
| Ráwalpindi | ... | ... | 30·86 |
| Muzaffargarh | ... | ... | 30·72 |
| Umballá | ... | ... | 30·62 |
| Jullundu | ... | ... | 30·61 |
| Kángra | ... | ... | 30·04 |

Districts with death-rates below 30.

| | | | |
|-----------------|-----|-----|-------|
| Ferozepore | ... | ... | 29·97 |
| Jhelum | ... | ... | 29·93 |
| Rohtak | ... | ... | 29·17 |
| Mooltan | ... | ... | 28·56 |
| Hoshiárpur | ... | ... | 28·05 |
| Dera Gházi Khan | ... | ... | 27·91 |
| Hissár | ... | ... | 27·71 |
| Gujrát | ... | ... | 27·67 |
| Shahpur | ... | ... | 26·92 |
| Pesháwar | ... | ... | 23·37 |
| Simla | ... | ... | 21·56 |
| Hazára | ... | ... | 21·43 |
| Montgomery | ... | ... | 21·27 |

It will be seen from the above statement that the most unhealthy districts in 1898 were Dera Ismail Khan (40·11), Jhang (39·39), Karnál (37·92), Gujránwála (36·85) and Gurgáon (36·53).

10. The subjoined table shows the death-rate recorded in the principal towns and hill sanatoria from 1888 to 1897; the average for these ten years and the death-rates for 1898—

Death-rates in principal towns.

| No. | DISTRICTS. | Towns. | Population according to the census of 1891. | DEATH-RATE FOR 10 YEARS. | | | | | | | | | | Average death-rate for 10 years. | Death-rate for 1898. |
|-----|-------------|------------------|---|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------------------|----------------------|
| | | | | 1888. | 1889. | 1890. | 1891. | 1892. | 1893. | 1894. | 1895. | 1896. | 1897. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1 | HISSAR | Hissar | 16,854 | 30 | 29 | 33 | 25 | 65 | 41 | 43 | 38 | 42 | 67 | 41 | 37 |
| 2 | | Hansi | 15,100 | 30 | 28 | 54 | 23 | 65 | 30 | 30 | 29 | 26 | 38 | 36 | 28 |
| 3 | | Bhiwani | 35,487 | 22 | 41 | 54 | 42 | 55 | 35 | 25 | 26 | 46 | 57 | 43 | 32 |
| 4 | | Sirsa | 16,415 | 39 | 37 | 40 | 30 | 85 | 26 | 27 | 29 | 31 | 64 | 41 | 35 |
| 5 | ROHTAK | Rohtak | 16,191 | 28 | 27 | 35 | 40 | 40 | 32 | 35 | 31 | 38 | 31 | 34 | 26 |
| 6 | | Jhajjar | 11,851 | 25 | 25 | 28 | 36 | 36 | 32 | 27 | 28 | 37 | 31 | 31 | 25 |
| 7 | GURGAON | Rewari | 27,931 | 27 | 31 | 30 | 29 | 43 | 27 | 37 | 31 | 34 | 30 | 22 | 22 |
| 8 | | Palwal | 11,227 | 53 | 47 | 46 | 40 | 49 | 35 | 45 | 37 | 41 | 50 | 44 | 45 |
| 9 | DELHI | Delhi | 189,618 | 38 | 38 | 39 | 15 | 49 | 31 | 41 | 43 | 40 | 34 | 40 | 34 |
| 10 | | Sonepat | 12,611 | 42 | 35 | 65 | 49 | 56 | 33 | 18 | 42 | 41 | 25 | 44 | 29 |
| 11 | KARNAL | Kanoli | 21,539 | 33 | 36 | 55 | 47 | 52 | 36 | 50 | 42 | 44 | 37 | 43 | 42 |
| 12 | | Kaithal | 15,768 | 25 | 27 | 40 | 27 | 56 | 48 | 53 | 40 | 49 | 44 | 41 | 41 |
| 13 | | Panipat | 27,547 | 29 | 25 | 54 | 37 | 36 | 31 | 51 | 40 | 38 | 37 | 38 | 37 |
| 14 | | Shahjahanpur | 11,473 | 19 | 18 | 56 | 33 | 12 | 26 | 40 | 39 | 25 | 33 | 32 | 23 |
| 15 | UMBALLA | Umballa | 26,856 | 35 | 33 | 72 | 30 | 45 | 30 | 40 | 41 | 31 | 28 | 39 | 27 |
| 16 | | Jagadhri | 13,029 | 39 | 32 | 40 | 30 | 38 | 34 | 57 | 50 | 38 | 38 | 39 | 28 |
| 17 | | Sadhana | 10,445 | 25 | 27 | 54 | 50 | 48 | 26 | 32 | 28 | 24 | 21 | 34 | 24 |
| 18 | HOSHIAHPUR | Hoshiahpur | 17,516 | 32 | 37 | 46 | 37 | 56 | 47 | 51 | 37 | 32 | 36 | 41 | 35 |
| 19 | | Tanda and Unnar | 11,632 | 37 | 36 | 46 | 28 | 90 | 51 | 59 | 31 | 30 | 25 | 44 | 34 |
| 20 | JULLUNDUR | Jullundur | 50,375 | 33 | 40 | 41 | 26 | 43 | 29 | 52 | 30 | 29 | 30 | 36 | 32 |
| 21 | | Rahon | 10,667 | 37 | 31 | 39 | 36 | 56 | 32 | 45 | 32 | 29 | 33 | 37 | 30 |
| 22 | | Kartarpur | 10,441 | ... | ... | ... | 27 | 36 | 31 | 103 | 39 | 27 | 21 | 41 | 28 |
| 23 | LUDHIANA | Ludhiana | 46,024 | 32 | 29 | 39 | 33 | 61 | 37 | 40 | 31 | 34 | 46 | 38 | 34 |
| 24 | | Jagraon | 18,116 | 49 | 46 | 17 | 46 | 44 | 30 | 33 | 31 | 39 | 33 | 40 | 29 |
| 25 | FEROZEPUR | Ferozepore | 25,337 | 40 | 37 | 45 | 27 | 58 | 30 | 32 | 28 | 31 | 38 | 37 | 28 |
| 26 | MOOLTAN | Mooltan | 64,265 | 31 | 40 | 37 | 28 | 55 | 30 | 30 | 39 | 29 | 33 | 35 | 29 |
| 27 | JHANG | Maghiana | 13,866 | 36 | 34 | 38 | 36 | 67 | 33 | 30 | 33 | 33 | 36 | 38 | 42 |
| 28 | | Chinfot | 13,476 | 32 | 36 | 39 | 26 | 42 | 29 | 33 | 30 | 37 | 33 | 34 | 42 |
| 29 | LAHORE | Lahore | 159,597 | 29 | 37 | 43 | 31 | 54 | 37 | 33 | 30 | 31 | 29 | 35 | 34 |
| 30 | | Kasur | 20,290 | 43 | 48 | 49 | 28 | 55 | 58 | 56 | 36 | 42 | 26 | 44 | 31 |
| 31 | | Chunian | 10,339 | ... | ... | ... | 24 | 66 | 34 | 30 | 30 | 47 | 45 | 39 | 46 |
| 32 | AMRITSAR | Amritsar | 135,401 | 47 | 41 | 60 | 42 | 66 | 46 | 60 | 41 | 43 | 36 | 48 | 40 |
| 33 | GURDASPUR | Batála | 27,223 | 37 | 35 | 18 | 26 | 61 | 33 | 83 | 28 | 29 | 27 | 41 | 30 |
| 34 | SIALKOT | Sialkot | 33,965 | 27 | 30 | 56 | 37 | 46 | 34 | 45 | 35 | 39 | 33 | 38 | 44 |
| 35 | GUJRAT | Gujrat | 17,671 | 30 | 25 | 129 | 28 | 51 | 20 | 37 | 26 | 32 | 30 | 42 | 37 |
| 36 | | Jalalpur | 11,065 | 31 | 33 | 75 | 35 | 55 | 35 | 47 | 26 | 32 | 25 | 39 | 42 |
| 37 | GUJRAN-WALA | Gujranwala | 25,892 | 29 | 32 | 60 | 25 | 40 | 29 | 29 | 29 | 27 | 26 | 33 | 25 |
| 38 | | Wazirabad | 15,786 | 28 | 36 | 81 | 37 | 52 | 34 | 41 | 31 | 29 | 40 | 41 | 49 |
| 39 | SHAHPUR | Bhera | 17,428 | 40 | 38 | 40 | 30 | 73 | 39 | 25 | 21 | 36 | 34 | 38 | 30 |
| 40 | JHELUM | Pind Dadan Khan | 15,053 | 39 | 41 | 35 | 34 | 66 | 38 | 37 | 32 | 31 | 45 | 40 | 35 |
| 41 | RAWALPINDI | Rawalpindi | 38,334 | 47 | 50 | 47 | 31 | 48 | 32 | 33 | 40 | 45 | 44 | 42 | 38 |
| 42 | PESHAWAR | Peshawar | 63,079 | 36 | 40 | 34 | 46 | 56 | 33 | 33 | 35 | 35 | 27 | 38 | 30 |
| 43 | KOHAT | Kohat | 14,347 | 45 | 29 | 33 | 35 | 63 | 28 | 29 | 29 | 33 | 39 | 36 | 29 |
| 44 | D. I. KHAN | Dera Ismail Khan | 21,573 | 25 | 24 | 30 | 34 | 78 | 38 | 51 | 39 | 36 | 75 | 43 | 54 |
| 45 | D. G. KHAN | Dera Ghazi Khan | 23,899 | 28 | 24 | 26 | 27 | 48 | 26 | 32 | 33 | 25 | 46 | 32 | 30 |
| | | MEAN | 1,412,775 | 36 | 37 | 48 | 36 | 54 | 35 | 42 | 35 | 36 | 36 | 40 | 34 |

| No. | DISTRICTS | TOWNS. | Population according to the census of 1891 | DEATH-RATE FOR 10 YEARS. | | | | | | | | | | Average birth-rate for 10 years. | Birth-rate for 1898. |
|-----|------------------------|--------|--|--------------------------|------|------|------|------|------|------|------|------|------|----------------------------------|----------------------|
| | | | | 1888 | 1889 | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | <i>Hill Sanitation</i> | | | | | | | | | | | | | | |
| | Simla | | 13,279 | 28 | 25 | 13 | 26 | 28 | 32 | 26 | 32 | 23 | 23 | 29 | 27 |
| | Dharmasala | | 2,778 | 21 | 20 | 40 | 31 | 30 | 22 | 33 | 37 | 51 | 44 | 33 | 37 |
| | Dalhousie | | 807 | 21 | 16 | 29 | 22 | 21 | 29 | 30 | 22 | 27 | 24 | 24 | 52 |
| | Munree | | 1,459 | 51 | 16 | 21 | 31 | 24 | 32 | 30 | 29 | 42 | 29 | 32 | 33 |

The death-rate of the 45 principal towns taken together was 34 in 1898 against 36 in the two preceding years and an average of 40 for the decennium ending 1897.

Amritsar has an average of 48 per 1,000, or the highest death-rate of all the towns; Palwal, Sonapat, Tanda and Urmur and Kasur come next with a death-rate of 44 per 1,000.

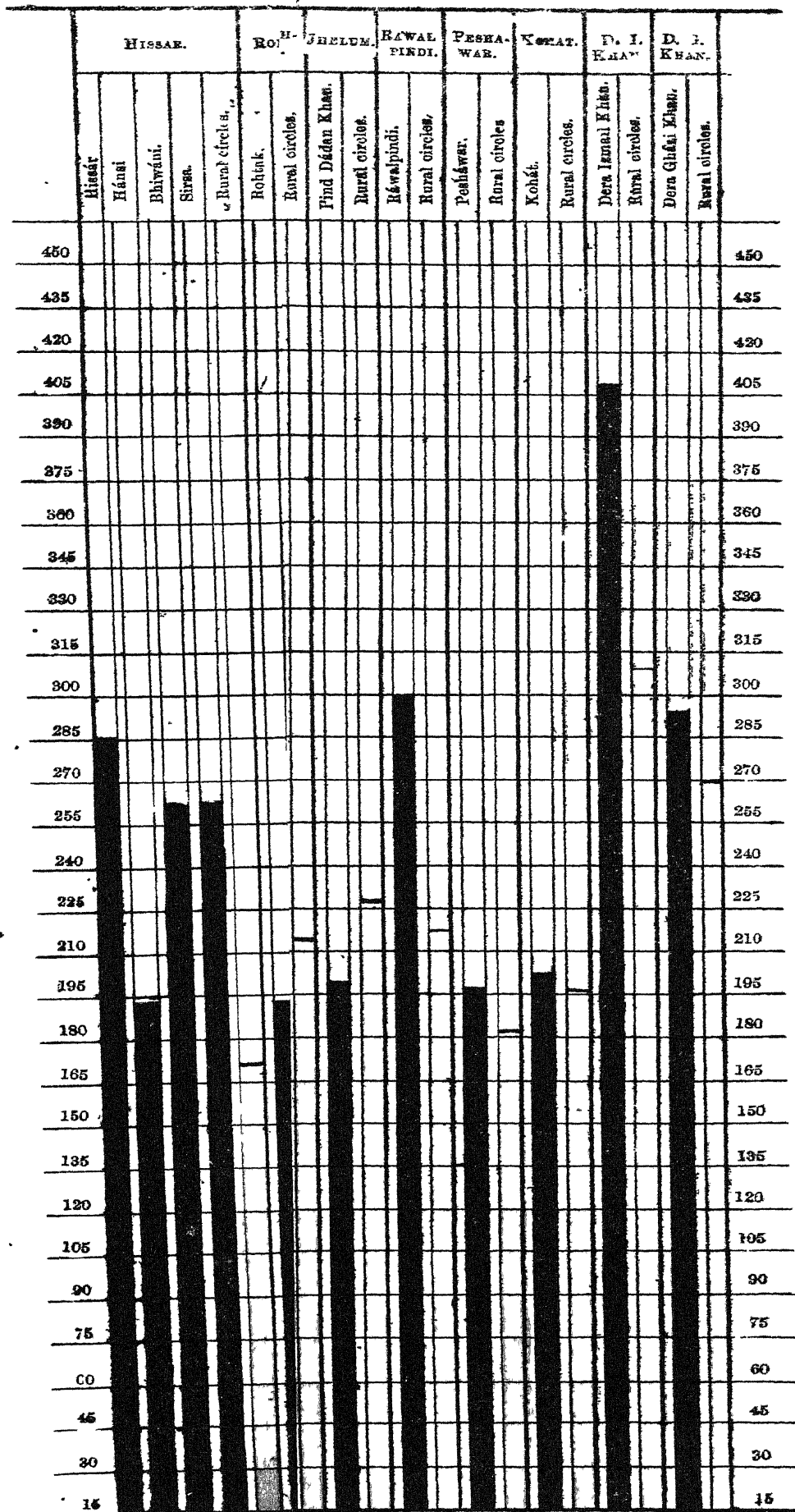
In 15 others, *viz.*, Hissar, Bhiwani, Sirsa, Delhi, Karnal, Kaithal, Hoshiarpur, Kartarpur, Jagraon, Batala, Gujrat, Wazirabad, Pind Dadan Khan, Rawalpindi and Dera Ismail Khan the rates vary between 40 and 43 per 1,000. Annual Form No. XI shows the chief sanitary defects in these towns and the remedial measures adopted. It may be noted here that in Amritsar, the most unhealthy town, the water-supply scheme is still under consideration, but in a very short time this town will be supplied with pure water which will, it is to be hoped, tend to lessen the high mortality.

Mortality in different age periods

11. The following table shows the death-rates according to different age periods per 1,000 living :—

| Ages. | | | | | | | | Males | Females. |
|---------------------|-----|-----|-----|-----|-----|-----|-----|--------|----------|
| Under one year | ... | ... | ... | ... | ... | ... | ... | 215.19 | 210.09 |
| 1 and under 5 years | ... | ... | ... | ... | ... | ... | ... | 63.04 | 68.57 |
| 5 " 10 " | ... | ... | ... | ... | ... | ... | ... | 10.46 | 11.66 |
| 10 " 15 " | ... | ... | ... | ... | ... | ... | ... | 6.50 | 8.48 |
| 15 " 20 " | ... | ... | ... | ... | ... | ... | ... | 7.25 | 9.34 |
| 20 " 30 " | ... | ... | ... | ... | ... | ... | ... | 9.38 | 10.94 |
| 30 " 40 " | ... | ... | ... | ... | ... | ... | ... | 13.06 | 14.56 |
| 40 " 50 " | ... | ... | ... | ... | ... | ... | ... | 19.48 | 17.98 |
| 50 " 60 " | ... | ... | ... | ... | ... | ... | ... | 29.37 | 26.88 |
| 60 and upwards | ... | ... | ... | ... | ... | ... | ... | 87.65 | 92.00 |

12. In the attached chart the death-rates of infants under one year of age per 1,000 of births in towns in 1898 are contrasted with those registered in the rural circles. In England and Wales the death-rate of infants under one year of age to 1,000 births registered in decennium ending in 1894 was 146, and the general death-rate for the same period was 19 per 1,000 of population. In the Punjab for the 10 years ending in 1898 the infant death-rate was 234, and the general death-rate of the Province 34 per *mille* of population. Although these figures show how unhealthy this Province is compared with England and Wales they, nevertheless, show that the *proportion* between the infant and general death-rates of these two countries is very nearly the same—a point which goes to show how steadily the system of registration is improving in this Province.



NOTE.—Black lines in
Red

In many towns the proportion of infant mortality is much higher than in the country. This can be easily accounted for by the fact that there is less overcrowding and defective ventilation in the rural than in the urban areas. The chart further shows those towns in which an abnormal death-rate among infants goes to swell the total death-rate of the urban population. In the following towns the death-rate among infants was excessively high :—

| | | | | | | | | |
|------------------|-----|-----|-----|------------|-----|-----|-----|-----|
| Dera Ismail Khan | ... | ... | 400 | Karnál | ... | ... | ... | 327 |
| Wazirabad | ... | ... | 374 | Heshiárpur | ... | ... | ... | 319 |
| Maghiána | ... | ... | 364 | Chúnián | ... | ... | ... | 306 |
| Kaithal | ... | ... | 331 | Ráwalpindi | ... | ... | ... | 300 |

In the rural circles the infant death-rates were very high in—

| | | | | | | | | |
|------------------|-----|-----|-----|-----------|-----|-----|-----|-----|
| Dera Ismail Khan | ... | ... | 308 | Jullundur | ... | ... | ... | 252 |
| Dera Gházi Khan | ... | ... | 270 | Karnál | ... | ... | ... | 243 |
| Ludhiána | ... | ... | 265 | Moeltan | ... | ... | ... | 241 |
| Amritsar | ... | ... | 260 | | | | | |

In the 45 principal towns out of 52,118 total births registered in 1898, no less than 12,766 infants died under one year of age, showing a death-rate of 245 per 1,000 of births. In the rural circles the death-rate of infants in 1898 was 226.

13. Annual Form No. V shows the death-rates registered according to classes. In the following table the rates are contrasted with those of the previous year :—

| | 1898. | 1897. |
|-------------------|-------|--------|
| Muhammadans | 31·19 | 31·24 |
| Hindús | 30·86 | 30·78 |
| Native Christians | 19·54 | 17·25 |
| Other classes | 79·61 | 114·55 |

14. There is an increase in the death-rate of Native Christians. The increase was most marked in the district of Gurdáspur, in which the death-rate rose from 19·82 to 30·45 per 1,000, showing what the real figures ought to be. There is no reason why Native Christians should be healthier than other natives.

The high death-rate under “other classes” is due to an error in the classification of population as noticed in previous reports.

15. There were 151 births and 88 deaths registered among the European and Eurasian population, showing a birth-rate of 18·1 and a death-rate of 10·55 per 1,000 of population. During the previous year the birth-rate was 14·39 and the death-rate 9·11. The figures for 1898 show that greater attention has been paid by the European population to the registration of their births and deaths than in previous years. These figures are still probably far below what they ought to be.

16. The vital statistics of cantonments are given as a supplement to Annual Form No. VI. Registration is so defective in these cantonments that any conclusions drawn from them would be useless. In 1898 there was a birth-rate of only 9 registered in the cantonments and a death-rate of 15 per 1,000 of population. There were 30 deaths registered from cholera in the cantonment of Umballa.

17. The following table gives the results of the inspection of birth and death registers by Divisional Inspectors, Vaccinators, Tahsildárs and Náib-Tahsildárs during the year 1898:—

| DIVISIONS. | DIVISIONAL INSPECTORS. | | | | VACCINATORS. | | | | TAHSILDARS AND NAIB-TAHSILDARS. | | | |
|-----------------|---------------------------------------|---|---------------------------------------|---|---------------------------------------|---|---------------------------------------|---|---------------------------------------|---|---------------------------------------|---|
| | Number of entries of births examined. | Number of omissions of births detected. | Number of entries of deaths examined. | Number of omissions of deaths detected. | Number of entries of births examined. | Number of omissions of births detected. | Number of entries of deaths examined. | Number of omissions of deaths detected. | Number of entries of births examined. | Number of omissions of births detected. | Number of entries of deaths examined. | Number of omissions of deaths detected. |
| Delhi | 12,306 | 877 | 9,702 | 451 | 110,986 | 2,470 | 90,625 | 1,694 | 8,283 | 131 | 1,673 | 117 |
| Jullundur .. . | 59,094 | 1,832 | 44,212 | 815 | 116,399 | 684 | 81,258 | 238 | 16,322 | 272 | 13,665 | 163 |
| Lahore | No Divisional Inspector. | | | | 254,283 | 2,233 | 172,191 | 770 | 346 | 80 | 378 | 70 |
| Ráwalpindi .. . | 22,851 | 879 | 15,410 | 453 | 101,751 | 2,110 | 68,607 | 1,106 | Not given | 159 | Not given | 132 |
| Pesháwar .. . | 9,087 | 1,476 | 7,304 | 864 | 14,057 | 661 | 11,254 | 33 | 3,011 | 65 | 1,313 | 47 |
| Deraját .. . | 25,069 | 1,450 | 29,344 | 3,192 | 31,870 | 2,793 | 27,015 | 879 | 2,963 | 160 | 2,901 | 141 |
| Total .. . | 128,387 | 6,514 | 106,002 | 5,775 | 629,346 | 10,951 | 445,950 | 4,750 | 30,927 | 867 | 22,960 | 670 |

It will be seen that in 128,387 entries of births and 106,002 of deaths checked by the Inspectors, they found, respectively, 6,514 and 5,775 omissions or 51 omissions in births and 54 in deaths in every 1,000 entries examined. The Vaccinators checked 629,346 entries of births and 445,950 of deaths, and discovered 10,951 omissions of births and 4,750 of deaths at the rate of 17 omissions of births and 11 of deaths per 1,000 entries checked. The rates of omissions detected by Tahsildárs and Náib-Tahsildárs were 17 and 15, taking the figures of only those districts in which the number of entries checked by these officers was given.

18. The following statement shows the working of the municipal bye-laws in respect to the fines inflicted for neglect to register births and deaths:—

Statement showing the working of the Municipal Bye-law regarding the registration of births and deaths for the year 1898.

| DISTRICTS. | Name of Municipal Towns. | Number of persons fined for neglecting to register births. | Number of persons fined for neglecting to register deaths. | Aggregate of fines inflicted. |
|-------------------------|--------------------------|--|--|-------------------------------|
| | | | | Rs. a. p. |
| Hissár | Hánsi .. . | 3 | .. | 10 0 0 |
| Rohtak | Rohtak .. . | 20 | .. | 15 4 0 |
| | Beri .. . | 2 | .. | 1 0 0 |
| Gurgáon | Hodal .. . | 16 | 7 | 13 15 0 |
| Delhi | Delhi .. . | 1 | 11 | 1 8 0 |
| Karnál | Sonepat .. . | 6 | .. | 6 0 0 |
| Umballa | Pánipat .. . | 1 | 1 | 7 0 0 |
| Kángra | Umballa .. . | .. | 1 | 1 0 0 |
| Hoshiárpur | Kángra .. . | .. | 1 | 1 0 0 |
| Jullundur | Anandpur .. . | 1 | 3 | 1 0 0 |
| | Jullundur .. . | .. | 4 | 4 0 0 |
| Ludhiána | Jagrón .. . | 3 | 1 | 2 8 0 |
| | Ráikot .. . | 2 | .. | 1 12 0 |
| Mooltan | Mooltan .. . | 1 | .. | 1 4 0 |
| | Shujábad .. . | 1 | .. | 1 0 0 |
| Jhang | Chumot .. . | .. | 1 | 5 0 0 |
| Lahore | Lahore .. . | 2 | 6 | 7 0 0 |
| Ráwalpindi | Attock .. . | .. | 1 | 0 4 0 |
| Pesháwar | Pesháwar .. . | 2 | .. | 4 0 0 |
| Bannu | Kálábágh .. . | 2 | .. | 2 0 0 |
| Dera Ismail Khan | Dera Ismail Khan .. . | 1 | 1 | 0 5 0 |
| Dera Gházi Khan | Dera Gházi Khan .. . | 2 | .. | 1 0 0 |
| | Jámpur .. . | 1 | .. | 1 0 0 |
| | Total ... | 67 | 38 | 88 12 0 |

Out of 150 municipal towns there were only 23 in which fines for neglecting to register births and deaths were imposed. The number of persons fined was 105 and the amount of fines inflicted was Rs. 88-12-0. During the previous year, the number of persons fined was 59 and the fines inflicted amounted to Rs. 44-6-0. The fines inflicted in Rohtak, Hodal, Hānsi and Panipāt were very high.

Section VI.—Chief Diseases.

Deaths from different diseases, 1867 to 1898.

19. In the following table the death-rates from the principal diseases from the year 1867 to 1898 are shown:—

| 1 | | | | | | | 2 | 3 | 4 | 5 | 6 | 7 |
|-------|-----|-----|-----|-----|-----|-----|--------------------------------------|-----------|---------|---------------------------|-----------|------------------|
| YEAR. | | | | | | | DEATHS PER 1,000 OF POPULATION FROM— | | | | | |
| | | | | | | | Cholera. | Small-pox | Fevers. | Dysentery* and diarrhoea. | Injuries. | All other causes |
| 1867 | ... | ... | ... | ... | ... | ... | 2.73 | 1.35 | 11.00 | not given | 0.26 | 4.37 |
| 1868 | ... | ... | ... | ... | ... | ... | 0.03 | 1.36 | 8.66 | 1.02 | 0.27 | 2.31 |
| 1869 | ... | ... | ... | ... | ... | ... | 0.53 | 3.05 | 15.64 | 1.77 | 0.29 | 2.87 |
| 1870 | ... | ... | ... | ... | ... | ... | 0.03 | 1.55 | 15.74 | 1.56 | 0.26 | 3.10 |
| 1871 | ... | ... | ... | ... | ... | ... | 0.02 | 1.46 | 12.21 | 1.24 | 0.25 | 5.60 |
| 1872 | ... | ... | ... | ... | ... | ... | 0.50 | 1.36 | 15.14 | 1.33 | 0.25 | 6.04 |
| 1873 | ... | ... | ... | ... | ... | ... | 0.01 | 1.47 | 12.57 | 1.12 | 0.27 | 4.86 |
| 1874 | ... | ... | ... | ... | ... | ... | 0.004 | 0.60 | 10.90 | 0.94 | 0.23 | 5.30 |
| 1875 | ... | ... | ... | ... | ... | ... | 0.36 | 0.78 | 16.00 | 1.57 | 0.30 | 5.56 |
| 1876 | ... | ... | ... | ... | ... | ... | 0.33 | 0.59 | 20.09 | 1.56 | 0.27 | 5.56 |
| 1877 | ... | ... | ... | ... | ... | ... | 0.001 | 0.70 | 12.54 | 1.01 | 0.29 | 5.52 |
| 1878 | ... | ... | ... | ... | ... | ... | 0.01 | 2.30 | 25.19 | 1.83 | 0.33 | 6.29 |
| 1879 | ... | ... | ... | ... | ... | ... | 1.49 | 2.83 | 27.54 | 1.69 | 0.30 | 5.13 |
| 1880 | ... | ... | ... | ... | ... | ... | 0.01 | 0.52 | 18.74 | 1.18 | 0.32 | 6.25 |
| 1881 | ... | ... | ... | ... | ... | ... | 0.30 | 0.38 | 20.32 | 0.99 | 0.32 | 7.41 |
| 1882 | ... | ... | ... | ... | ... | ... | 0.002 | 0.24 | 18.40 | 0.85 | 0.30 | 6.90 |
| 1883 | ... | ... | ... | ... | ... | ... | 0.01 | 0.64 | 16.25 | 0.77 | 0.23 | 7.29 |
| 1884 | ... | ... | ... | ... | ... | ... | 0.03 | 0.87 | 24.71 | 0.97 | 0.29 | 8.16 |
| 1885 | ... | ... | ... | ... | ... | ... | 0.10 | 0.40 | 18.40 | 0.94 | 0.29 | 6.77 |
| 1886 | ... | ... | ... | ... | ... | ... | 0.0006 | 0.57 | 17.85 | 0.95 | 0.33 | 6.91 |
| 1887 | ... | ... | ... | ... | ... | ... | 0.47 | 0.87 | 23.78 | 1.30 | 0.32 | 7.57 |
| 1888 | ... | ... | ... | ... | ... | ... | 0.79 | 0.90 | 20.16 | 0.99 | 0.32 | 6.73 |
| 1889 | ... | ... | ... | ... | ... | ... | 0.15 | 0.42 | 22.75 | 0.96 | 0.24 | 7.00 |
| 1890 | ... | ... | ... | ... | ... | ... | 0.18 | 0.47 | 36.75 | 0.91 | 0.30 | 8.25 |
| 1891 | ... | ... | ... | ... | ... | ... | 0.49 | 0.17 | 21.52 | 0.59 | 0.29 | 6.08 |
| 1892 | ... | ... | ... | ... | ... | ... | 3.70 | 0.54 | 34.83 | 1.06 | 0.32 | 9.08 |
| 1893 | ... | ... | ... | ... | ... | ... | 0.03 | 0.20 | 18.95 | 0.79 | 0.25 | 7.81 |
| 1894 | ... | ... | ... | ... | ... | ... | 0.005 | 0.30 | 25.07 | 0.87 | 0.34 | 9.94 |
| 1895 | ... | ... | ... | ... | ... | ... | 0.03 | 0.41 | 19.08 | 0.76 | 0.23 | 8.69 |
| 1896 | ... | ... | ... | ... | ... | ... | 0.25 | 2.19 | 19.15 | 0.68 | 0.35 | 8.92 |
| 1897 | ... | ... | ... | ... | ... | ... | 0.03 | 0.78 | 20.57 | 0.77 | 0.35 | 8.54 |
| 1898 | ... | ... | ... | ... | ... | ... | ... | 0.24 | 20.35 | 0.77 | 0.36 | 9.33 |

* Up to the year 1890 deaths were registered under the general head "Bowel-complaints."

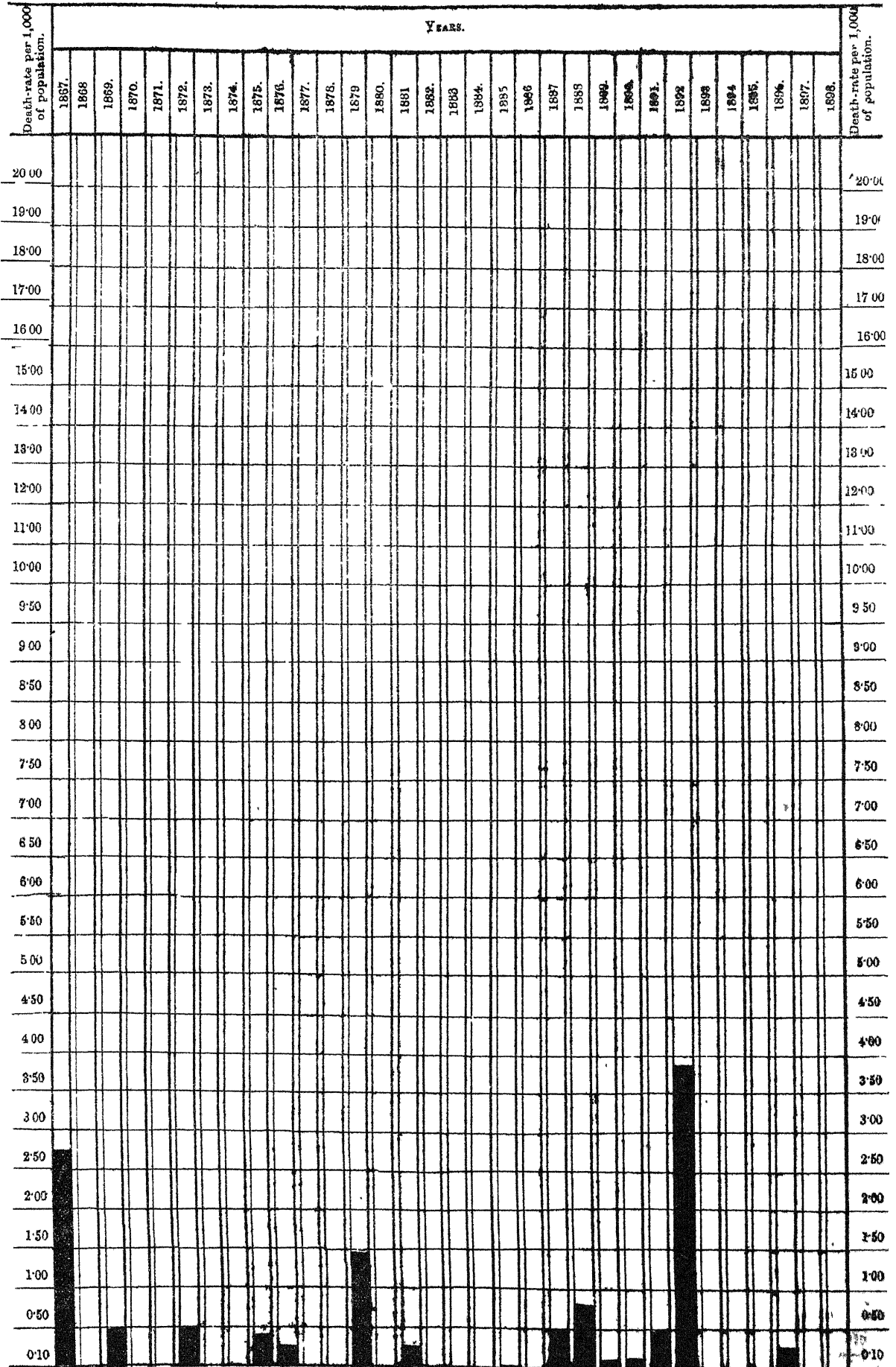
ending 1897.

| Death-rate per 1,000 of population. | CHOLERA. | | SMALL-POX. | | FEVER. | | DYSENTERY AND DIARRHŒA. | | CHEST DISEASES. | | Death-rate per 1,000 of population. |
|---|----------|---|------------|---|--------|---|----------------------------|---|-----------------|---|---|
| | 1898. | Average for ten years ending 1897. | 1898. | Average for ten years ending 1897. | 1898. | Average for ten years ending 1897. | 1898. | Average for ten years ending 1897. | 1898. | Average for ten years ending 1897. | |
| 24.00 | | | | | | | | | | | 24.00 |
| 23.00 | | | | | | | | | | | 23.00 |
| 22.00 | | | | | | | | | | | 22.00 |
| 21.00 | | | | | | | | | | | 21.00 |
| 20.00 | | | | | | | | | | | 20.00 |
| 19.00 | | | | | | | | | | | 19.00 |
| 18.00 | | | | | | | | | | | 18.00 |
| 17.00 | | | | | | | | | | | 17.00 |
| 16.00 | | | | | | | | | | | 16.00 |
| 15.00 | | | | | | | | | | | 15.00 |
| 14.00 | | | | | | | | | | | 14.00 |
| 13.00 | | | | | | | | | | | 13.00 |
| 12.00 | | | | | | | | | | | 12.00 |
| 11.00 | | | | | | | | | | | 11.00 |
| 10.00 | | | | | | | | | | | 10.00 |
| 9.50 | | | | | | | | | | | 9.50 |
| 9.00 | | | | | | | | | | | 9.00 |
| 8.50 | | | | | | | | | | | 8.50 |
| 8.00 | | | | | | | | | | | 8.00 |
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| 2.00 | | | | | | | | | | | 2.00 |
| 1.50 | | | | | | | | | | | 1.50 |
| 1.00 | | | | | | | | | | | 1.00 |
| 0.50 | | | | | | | | | | | 0.50 |
| 0.10 | | | | | | | | | | | 0.10 |

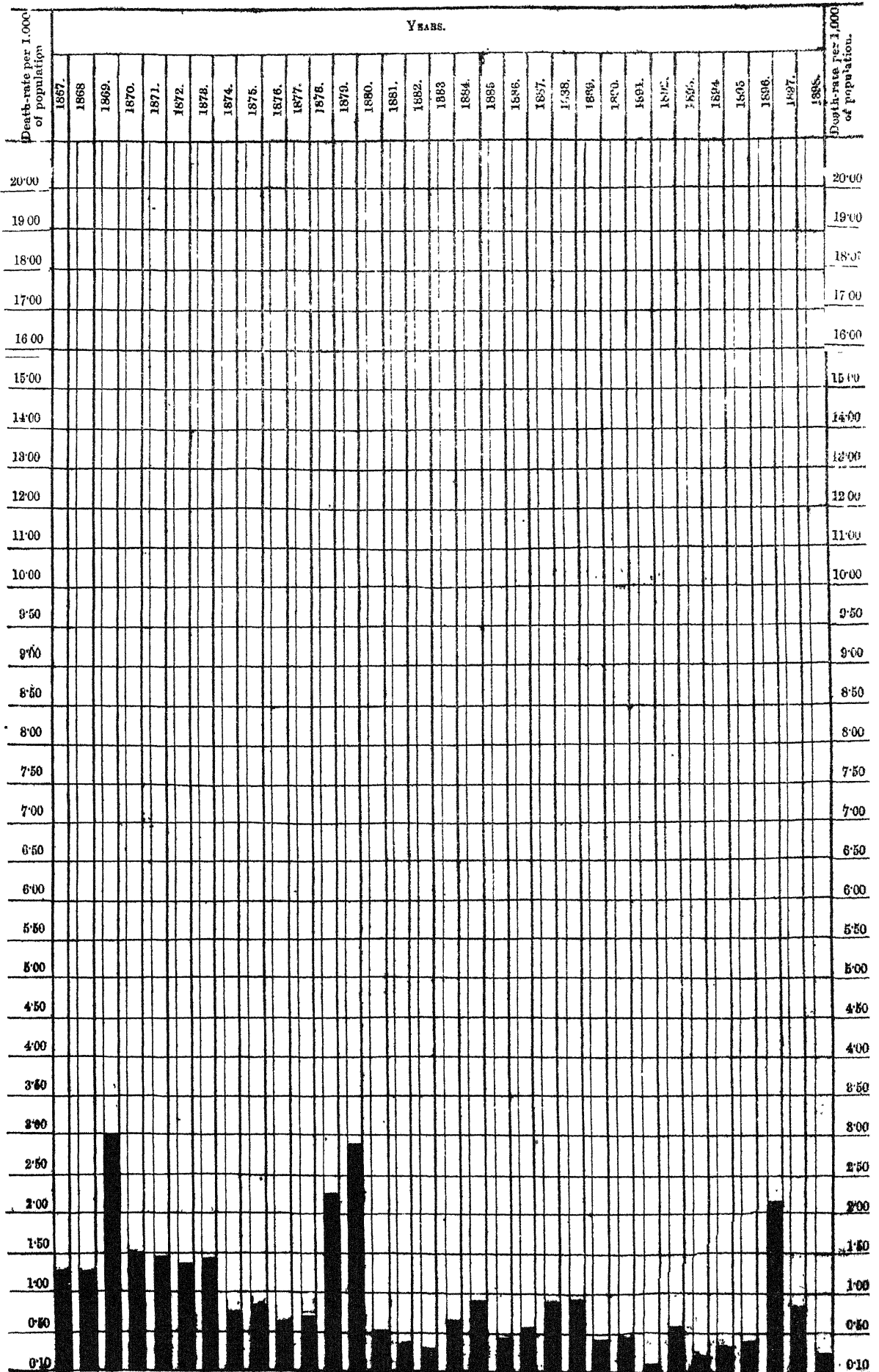
Red lines indicate the average for ten years ending 1897.

CHART.

Showing the rise and fall of Cholera Mortality in the Punjab Province from 1867 to commencement of registration to 1898.



Showing the rise and fall of Small-pox Mortality in the Punjab Province from 1867 to commencement of registration to 1898.



20. The first of the three preceding charts shows, at a glance, the rate of mortality from cholera, small-pox, fevers, dysentery and diarrhoea and chest diseases, for the year 1898 and the average annual death-rate for the 10 years ending 1897.

As regards epidemic diseases this year is better than the average for ten years; fever was also less prevalent, but dysentery and diarrhoea and chest diseases are just equal to the average for the last ten years. We see at once how the mortality from fever dwarfs all the others. Most probably a good deal of pneumonia and tubercle is put down as fever. This year I have had charts prepared which show much more readily the difference in mortality caused by different diseases and also the rise and fall in the death-rates of each disease for each year since registration was instituted.

PLAGUE.

21. There were 1,563 deaths registered from plague in the district of Jullundur and 388 in that of Hoshiarpur in 1898. As a detailed report on plague drawn up by Captain C. H. James, I. M. S., has been published and reviewed by Government, it is needless to make any comments on the subject in this report.

CHOLERA.

22. The Province was practically free from cholera during 1898. With the exception of the 30 deaths that occurred from cholera in Umballa cantonment there were only three deaths recorded, *viz.*, two in the Gurgáon district and one in the Umballa district. The prescribed cholera map is omitted from this report as it would be blank, but I give a chart which shows at a glance the rise and fall of cholera mortality during the past 32 years. The years of very high mortality were 1867, 1879, and 1892, and the rise and fall of the disease in the intervening years of these three great epidemics is exhibited in the chart.

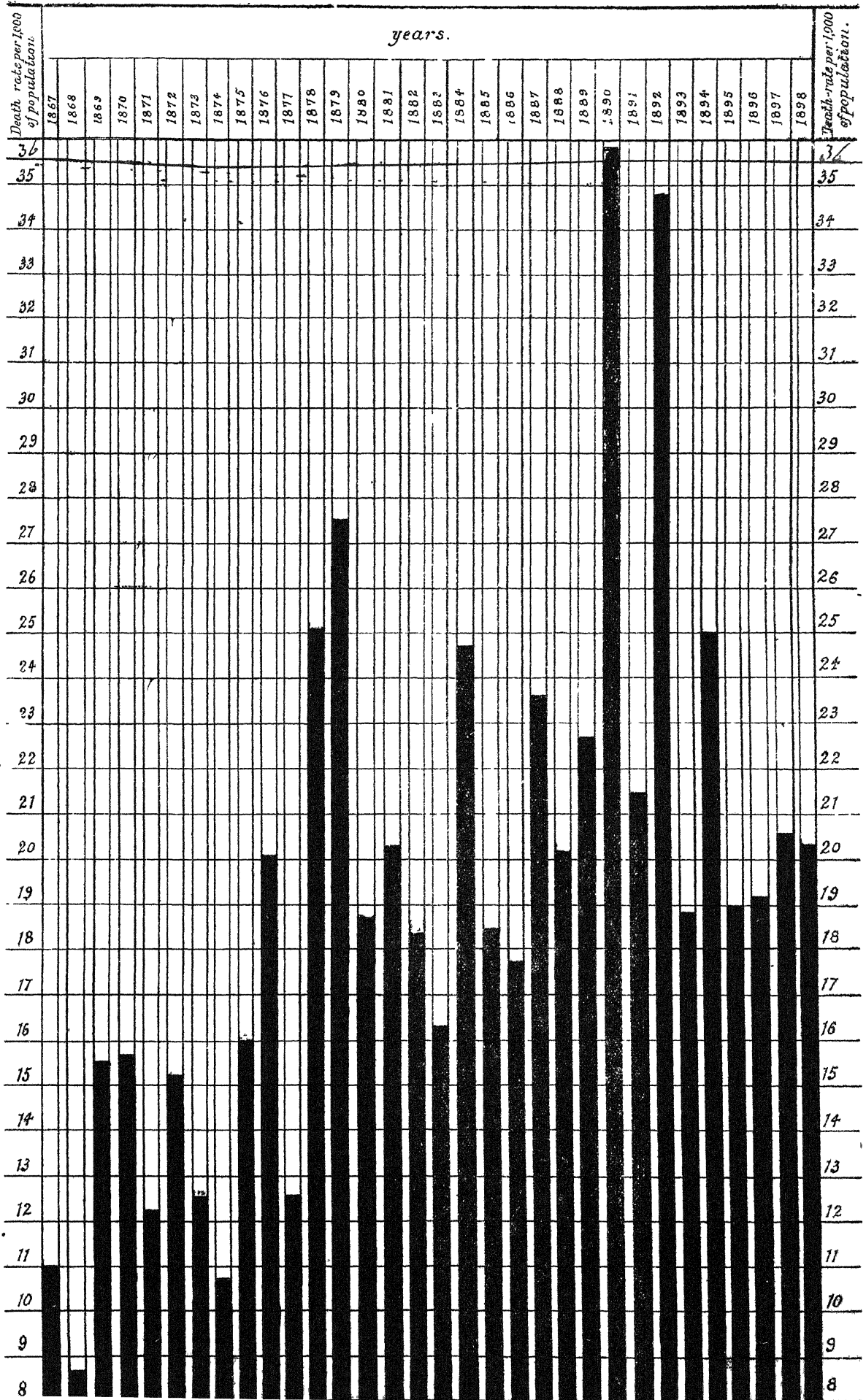
This chart clearly indicates that severe epidemics have occurred at intervals of 11 to 12 years. These years of high mortality are those in which the great Hurdwár Kumb fairs took place.

SMALL-POX.

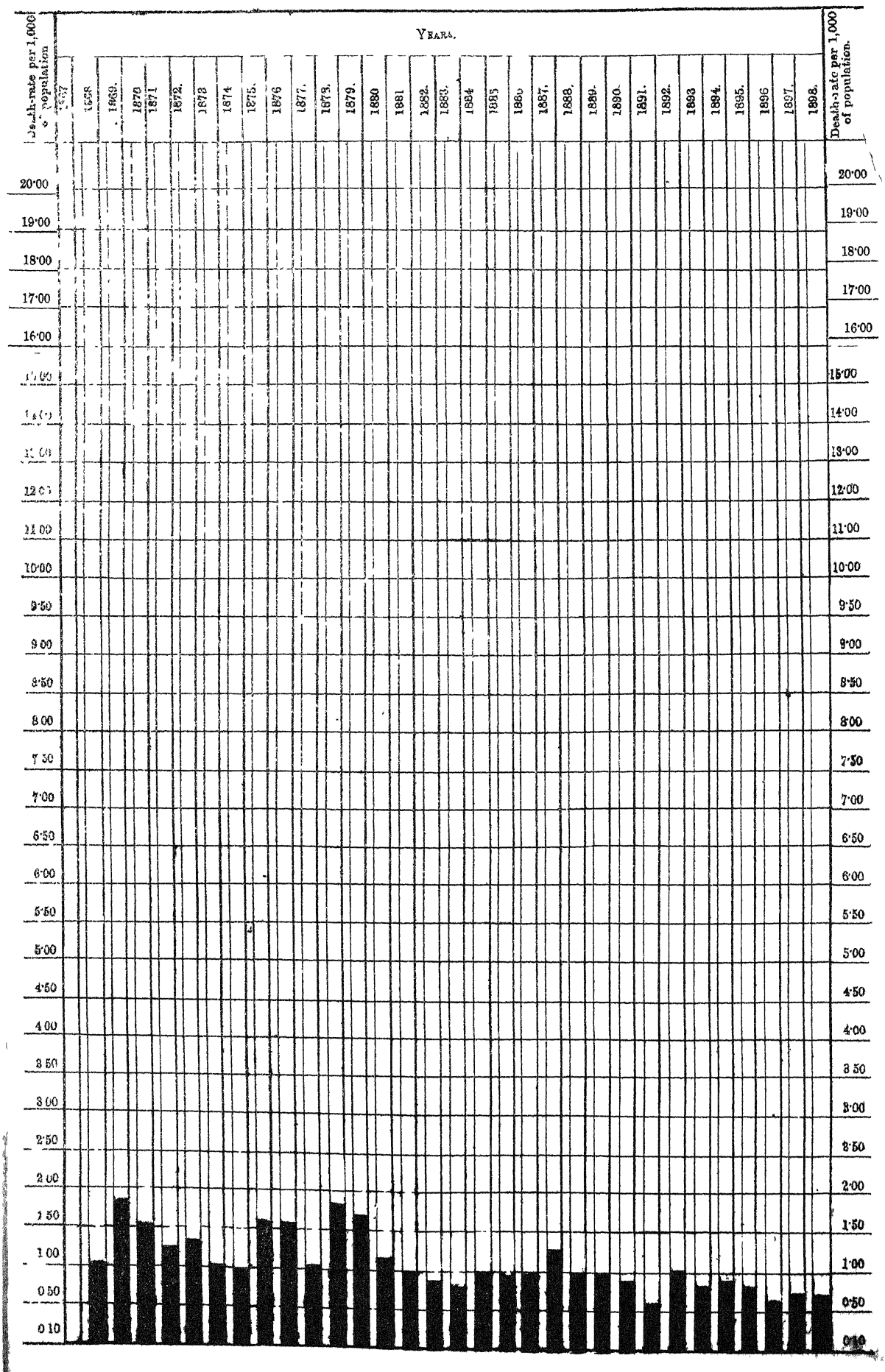
23. There were 4,998 deaths from small-pox during 1898 against 16,077 in the previous year. In this chart I should have liked to have been able to give, in juxtaposition, the best vaccinated districts with the small-pox mortality so as to show how entirely the disease may be stamped out by efficient vaccination, but it would entail considerable enlargement of the chart and the subject comes more directly under the head of vaccination, and will therefore be noted fully in the Vaccination Report for 1898-99.

In looking at this chart one sees at a glance that small-pox was much more prevalent from 1867 to 1879 than it was from 1879 to 1898. That is, if we take the sum of the black columns for the first period from 1867 to 1879, and the sum of the black columns from 1880 to 1898, we find the first is nearly twice as long as the last, though the first is for a period of thirteen years and the second for a period of nineteen years. This latter period almost

commencement of registration to 1898.



Showing the rise and fall of Dysentery and Diarrhœa Mortality in the Punjab Province from 1867 to commencement of registration to 1898.



The districts which recorded the lowest rates were—

| | | | | | | | | | Death-rates. |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|--------------|
| Simla ... | ... | ... | ... | ... | ... | ... | ... | ... | 9.76 |
| Montgomery ... | ... | ... | ... | ... | ... | ... | ... | ... | 10.51 |
| Jullundur ... | ... | ... | ... | ... | ... | ... | ... | ... | 13.88 |
| Hazára ... | ... | ... | ... | ... | ... | ... | ... | ... | 14.88 |
| Hoshiárpur ... | ... | ... | ... | ... | ... | ... | ... | ... | 15.30 |

DYSENTERY AND DIARRHŒA.

Chart showing deaths from dysentery and diarrhœa.

28. The rise and fall of the mortality from these diseases year by year since 1867 will be seen at a glance from the annexed chart.

Looking at this chart one cannot help noticing that in the period prior to 1880 there were many more bad years than there were afterwards, and that since the year 1887 in no year has the mortality exceeded 1.4 per mille.

29. The deaths registered from dysentery and diarrhœa are given in Districts with high annual Form No. X appended to this report. There is nothing in the statement that deserves any particular notice except that in Gurgáon, Delhi, Simla, Hoshiárpur, Gurdáspur, Siálkot and Dera Ismail Khan the death-rate was higher than in the other districts of the Province, and that these districts generally have also registered a higher death-rate in previous years. There is no apparent reason for this.

INJURIES.

Deaths from injuries

30. Under the head of Injuries 7,323 deaths were registered in the Province against 7,265 in the previous year.

Deaths from suicide.

31. From suicide 351 deaths were registered, 148 were males and 203 females, and the district in which the largest number of deaths from this cause occurred (13 males and 49 females) was Gurgáon as usual.

From wounding, &c.

32. Under the head of wounding 715 deaths were recorded, and the districts which registered the largest number were Pesháwar (95), Ráwalpindi (64), Bannu (60) and Kohát (52).

Deaths from accidents

33. The number of deaths due to accidents was 4,913; of these no less than 2,330 were caused by drowning.

Deaths from snake-bite.

34. The number of deaths caused by snake-bite amounted to 1,160 against 1,008 in the previous year. The districts in which the largest number of deaths occur are given below, with the mortality registered in them since 1891 to 1898—

| Districts | 1891 | 1892. | 1893. | 1894. | 1895. | 1896. | 1897. | 1898. |
|------------------|------|-------|-------|-------|-------|-------|-------|-------|
| Mooltan ... | 69 | 59 | 50 | 83 | 93 | 77 | 68 | 82 |
| Jhang ... | 66 | 46 | 59 | 75 | 70 | 70 | 65 | 87 |
| Montgomery ... | 60 | 70 | 79 | 66 | 73 | 49 | 60 | 70 |
| Lahore ... | 40 | 59 | 83 | 86 | 99 | 73 | 82 | 93 |
| Gujránwála ... | 69 | 94 | 84 | 120 | 117 | 145 | 155 | 146 |
| Shahpur ... | 36 | 43 | 49 | 55 | 70 | 36 | 57 | 67 |
| Ráwalpindi ... | 43 | 35 | 48 | 58 | 68 | 50 | 49 | 63 |
| Muzaffargarh ... | 40 | 55 | 47 | 65 | 73 | 53 | 49 | 57 |

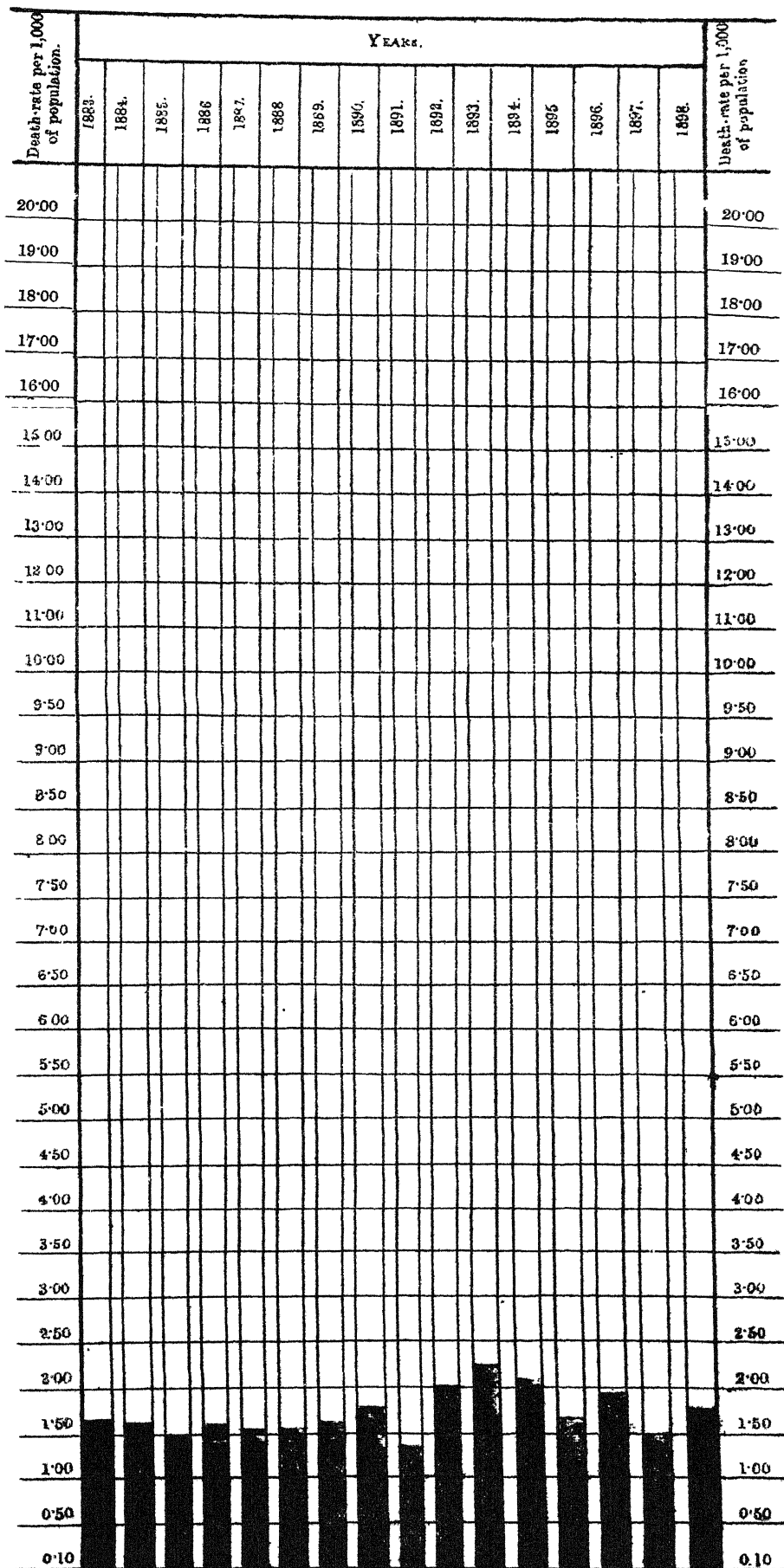
It will be seen from the above table that of late years the mortality from snake-bite has risen considerably. There seems no reason for this.

35. Under the head of hydrophobia 147 deaths were registered against 129 last year. This increase shows how important it is that means should be provided for the cure of the sufferers from this fatal disease. The only treatment at present known to be of any use is that introduced by Monseur Pasteur. It is most unfortunate that the poorer natives of India are unable to avail themselves of this treatment. It is hoped that the time is not far distant when a Pasteur Institute will be established in the Punjab and the people of India will no longer suffer without the possibility of any relief.

36. From all other causes 191,847 deaths were registered, including 37,299 deaths from cough and chest diseases.

The rise and fall of mortality from chest diseases may be seen in the accompanying chart. One cannot help noticing that the mortality from these diseases since 1890 has been higher than it was before that year. This is no doubt due to greater care both in registration and diagnosis of the disease, the deaths formerly being entered under the head of Fevers.

Chart showing the rise and fall of mortality from chest diseases in the Panjab Province from 1883 to 1898.



Section IX.—Sanitary Works.

37. The following statement shows the important water-supply and drainage schemes, &c., which were either completed, in progress or under consideration during the year in different parts of the Province :—

| Name of District. | Locality. | Name of work. | Amount of estimate. | Outlay to date. | REMARKS. |
|-------------------|--------------|--|---------------------|-----------------|--|
| | | | Rs. | Rs. | |
| Hissár ... | Bhiwáni ... | Bhiwáni Water-works . | 2,20,675 | 307 | Estimate prepared and submitted for sanction. |
| Delhi ... | Delhi . | Extension of Delhi water-works. | 1,82,722 | ... | Estimate sanctioned but funds not yet granted. |
| Do. ... | Do. ... | Delhi Drainage Works... | 6,09,042 | 47,553 | Length of surface drains constructed during the half year, 10,676 cubic feet. Total length of drains constructed to end of December 1898, 57,676 cubic feet. The work is in progress. |
| Umballa ... | Umballa City | Drainage Scheme .. | ... | ... | Rough project called for by Commissioner and Superintendent, Delhi Division, is under preparation by Executive Engineer. |
| Simla ... | Simla ... | (1) Seog Reservoir ... | 2,02,347 | 67,562 | From 1st July to 31st December 1898 the progress was made as follows:— Excavation, C. feet. 103,228 Concrete " 39,200 C. R. Masonry " 5,050 If the work had not been stopped by Government from 23rd July to 1st November 1898 it would have been practically completed by 31st December 1898. |
| Do. ... | Do. ... | (2) Additional Feed Reservoir, Cherát-Nalta. | 10,484 | 9,416 | Completely finished. |
| Do. ... | Do. ... | (3) Gravitation Pipe supply to Cherát-Nalta Pumping Station. | 2,40,292 | 7,300 | Project submitted to the Secretary to Government, Punjab, Public Works Department, for approval. |
| Do. ... | Do. ... | (4) Additions and alterations to filter beds Nos. 1, 2 and 3. | 18,594 | 7,141 | Filter beds Nos. 2 and 3 nearly finished and work on filter bed No. 1 postponed until funds are provided by Simla Municipality. |
| Do. ... | Do. ... | (5) Separation of the drinking and sewer flushing water supplies and improvements to sanitary arrangements in Simla. | 8,096 | 54 | Estimate submitted for sanction. |

| Name of District | Locality. | Name of work. | Amount of estimate made | Outlay to date. | REMARKS. |
|------------------|------------|--|-------------------------|-----------------|--|
| | | | Rs. | Rs. | |
| Simla | Simla | (6) Jack High Level Pipe line. | Rough estimate 27,000 | 82 | Fair estimate under preparation. |
| Do | Do | (7) Tunnelling at No. 3 Spring | 2,996 | 1,220 | Completed |
| Do | Do | (8) Mahassu Reservoir Project | 32,798 | 1,833 | Estimate for Rs 32,798 submitted for sanction |
| Ludhiana | Ludhiana | Boring on the site of proposed wells for water supply, Ludhiana | 414 | 408 | Boring taken and the water has been approved by the Chemical Examiner Estimate for constructing experimental well has been sent to Commissioner for sanction by Municipal Committee but not yet received back |
| Do. | Jagraon | Intra-mural Drainage Scheme | 6,551 | .. | Estimate submitted to Chief Engineer, Punjab. |
| Do | Do | Extra-mural Drainage Scheme | 8,496 | ... | Project submitted to Chief Engineer, Punjab. |
| Ferozepore | Ferozepore | Drainage Scheme, City | 61,416 | ... | The case is under disposal with Commissioner. |
| Do. | Fazilka | Drainage Scheme, Fazilka | 17,237 | ... | Estimate sanctioned. |
| Do | Muktsar | Drainage Scheme, Muktsar | 17,292 | . | Estimate submitted to Superintending Engineer for sanction but since returned to Executive Engineer with further remarks. |
| | | <i>Sewage and Drainage Scheme</i> | | | |
| Lahore | Lahore | (a) City Project | 47,863 | 24,487 | In progress |
| Do | Do | (b) Anarkali Project | 25,675 | 18,421 | Work deferred for want of funds. |
| Do | Do | (c) Anarkali and Mozung Outfall. | 77,885 | 55,203 | In progress |
| Amritsar | Amritsar | Preliminary operations for water-supply | 1,155 | 1,164 | Completed. |
| Do | Do | Survey operations in connection with Amritsar Water-works Scheme with head works at the Bari Doab Canal. | 200 | 212 | Completed |

| Name of District | Locality | Name of work | Amount estimated | Cost to date | REMARKS |
|------------------|------------|--------------------------------|------------------|--------------|--|
| | | | Rs. | P. | |
| Mooltan | Mooltan | Water supply at— | 1 38 | 10 | Amount in hand. The expenditure shown against this has been incurred on preliminary survey of the site and on estimates. |
| Rawalpindi | Rawalpindi | Drainage Scheme, Rawalpindi | 1 47 15 1/2 | 108 | Application made to Commissioner and Superintendent, Rawalpindi Division for acquiring land under Act I of 1894 required for the purpose. |
| Hazara | Hazara | Water supply at— | 49 0 56 | 46 2 62 | Work completed. |
| Do | Ablottabad | Diversions of Town Drainage at | 3 9 72 | | Work in abeyance under orders of the Government, vide para 1 of letter No 251 dated 17th February 1898 from Junior Secretary to Government, Punjab, to the Secretary to the Government, Punjab, P. W. D. |

38. The table showing the aggregate income and expenditure of all the municipal towns in the Province is given in Appendix B to this report. The income amounted to Rs. 45,40,697, and there was a balance in hand at the beginning of the year of Rs. 9,91,384: the expenditure during the year amounting to Rs. 43,11,451.

39. The subjoined statement shows the amount expended on sanitary works under the principal heads for the years 1896, 1897 and 1898:—

| Head of expenditure | DURING THE YEAR. | | |
|--|------------------|-----------|-----------|
| | 1896 | 1897. | 1898 |
| | Rs. | Rs. | Rs. |
| Conservancy establishment | 5,83,174 | 6,35,308 | 5,90,777 |
| Paving of streets | 71,970 | 33,121 | 43,314 |
| Roads and bridges | 2,69,874 | 1,62,705 | 1,99,285 |
| Drainage and sewerage .. . | 1,26,608 | 1,02,847 | 96,888 |
| Water-supply, including cleaning of tanks, &c. ... | 1,66,744 | 2,17,183 | 1,65,799 |
| Latrines | 15,813 | 15,475 | 28,922 |
| Widening of streets | 2,507 | 1,252 | 115 |
| Total | 12,36,690 | 11,67,891 | 11,25,100 |

40. It will be seen from the above table that the expenditure on drainage and sewerage amounted to Rs. 96,888 and on water-supply, including cleaning of tanks, &c., amounted to Rs. 1,65,799 as compared with Rs. 1,02,847 and Rs. 2,17,183, the figures respectively for the previous year.

41. The total income derived from the sale of manure in all the municipal towns of the Province amounted during the year to Rs. 1,43,501, as compared with Rs. 1,49,120 in 1897 and Rs. 1,36,076 in 1896.

42. The following statement shows the works of public utility constructed by private individuals at their own expense to serve sanitary purposes during 1897-98:—

Statement showing works of public utility constructed by private individuals during 1897-98.

| No. | Names of district. | Names of contributors. | Description of works and localities. | Amount expended. |
|----------------------------|---------------------|---|---|------------------|
| | | | | Rs. |
| DELHI DIVISION. | | | | |
| 1 | Hissár | Ohúni Lál, son of Mata Mal, of Bhattu Kalán. | A pacca well at Bhattu Kalán .. | 1,000 |
| 2 | Do. | Sheo Rám, son of Dhamni, and Masánia, son of Kirpa Rám, of Buliáli. | A pacca well at Buliáli | 2,000 |
| 3 | Do. | (1) Rám Gopál, (2) Nathu Mal, and (3) Pars Rám, son of Ganga Rám, of Bhattu. | A pacca well at Bhattu | 1,100 |
| 4 | Rohtak | Kirori Mal, son of Talsi Rám, Mahájan, of Bádli. | A pacca well and a dharm sála in the village of Bádli. | 2,000 |
| 5 | Do. | Kirori Mal, son of Baldeo Sahái, and Hazári Lál, son of Kishen Sahai, Mahájans, of Bádli. | A pacca well near the boundary of Bádli. | 1,776 |
| 6 | Do. | Pír Chait Náth, Mahant of Bohar . | A tank with ghát near the boundary of Bohar. | 1,500 |
| 7 | Do. | Sheo Chand, Lambardár, of Bohar | A tank with gháts on the Rohtak and Kharkhauda Road. | 1,200 |
| 8 | Delhi | Kallan, Bania, of Nangla Gujrán . | A tank on the Babulgarh-Pati Road near Nangla, with pacca ghát on two sides and a kacha ghát for cattle on one side. | 5,000 |
| 9 | Do. | Hira Lál, son of Jai Rám, of Narela | Temple, dharm sála and pacca well on the Narela-Bághpat Road. | 2,000 |
| 10 | Karnál | Lála Síhu Mal, Mahájan, of Koer, Tahsíl Karnál. | Pacca bathing gháts for men and women at Koei village. | 5,000 |
| 11 | Do. | Ruldu Mal, son of Hardwári Mal, Mahájan, of village Atewa, Tahsíl Kaithal. | Pacca bathing gháts for men and women and a dharm sála at Mauza Atewa, Tahsíl Kaithal. | 2,500 |
| JULLUNDUR DIVISION. | | | | |
| 1 | Kángra | Brother Rupa and Bhikha, Súd, of Garli, Tahsíl Dera. | Pacca masonry tank constructed in Mauza Garli, Tahsíl Dera, on Garli Road. | 5,649 |
| 2 | Do. | Ránjho, Súd, of Bahan, Tahsíl Dera | Pacca masonry tank in Mauza Bohan on road from Dera to Jawála-mukhi. | 2,237 |
| 3 | Ferozepore | Rám Chand, son of Basti Rám, Bania, resident of village Kalyán Sukkha, Thána Moga. | Pacca well on road from Bhágapurána to Nathána near villages Kalyán and Nathána. | 2,000 |
| LAHORE DIVISION. | | | | |
| 1 | Lahore | Háji Núr Muhammad and Mián Mír Burhán of Gunja Kalán, Tahsíl Chúnian. | A rest-house with a very large compound and out-houses on the Kasúr and Fázilka Road outside the village Gunja Kalán, Tahsíl Chúnian. | 8,500 |
| 2 | Do. | Mirza Mobárak Beg, of Patti, Tahsíl Kasúr. | A rest-house with a large compound, out-houses and walls attached thereto, in Mauza Patti, Tahsíl Kasúr. | 8,000 |
| 3 | Amritsar | Har Karan Sahái | A pacca well with a dwelling-house at village Músa for the convenience of travellers | 1,200 |
| 4 | Gurdáspur | Rám Saran Dás, son of Nand Lál, Khatri, of Batála. | A pacca sarai near the railway station at Batála purely for public convenience and comfort. | 3,000 |
| 5 | Do. | Bishamber Dás, Hakím, son of Mulkh Ráj, Arora, of Batála. | Ditto ditto ditto ditto | 7,000 |
| DEBAJAT DIVISION. | | | | |
| 1 | Muzaffargarh | Báwa Dhián Dás, Udási Fakír ... | Pacca well roofed, in the town of Muzaffargarh. | 2,150 |

43. In the subjoined table the death-rates from cholera, small-pox, fevers and dysentery and diarrhoea are given for the five years preceding and for the period since the introduction of drainage or water-supply, or both, in the undermentioned towns and rural circles—

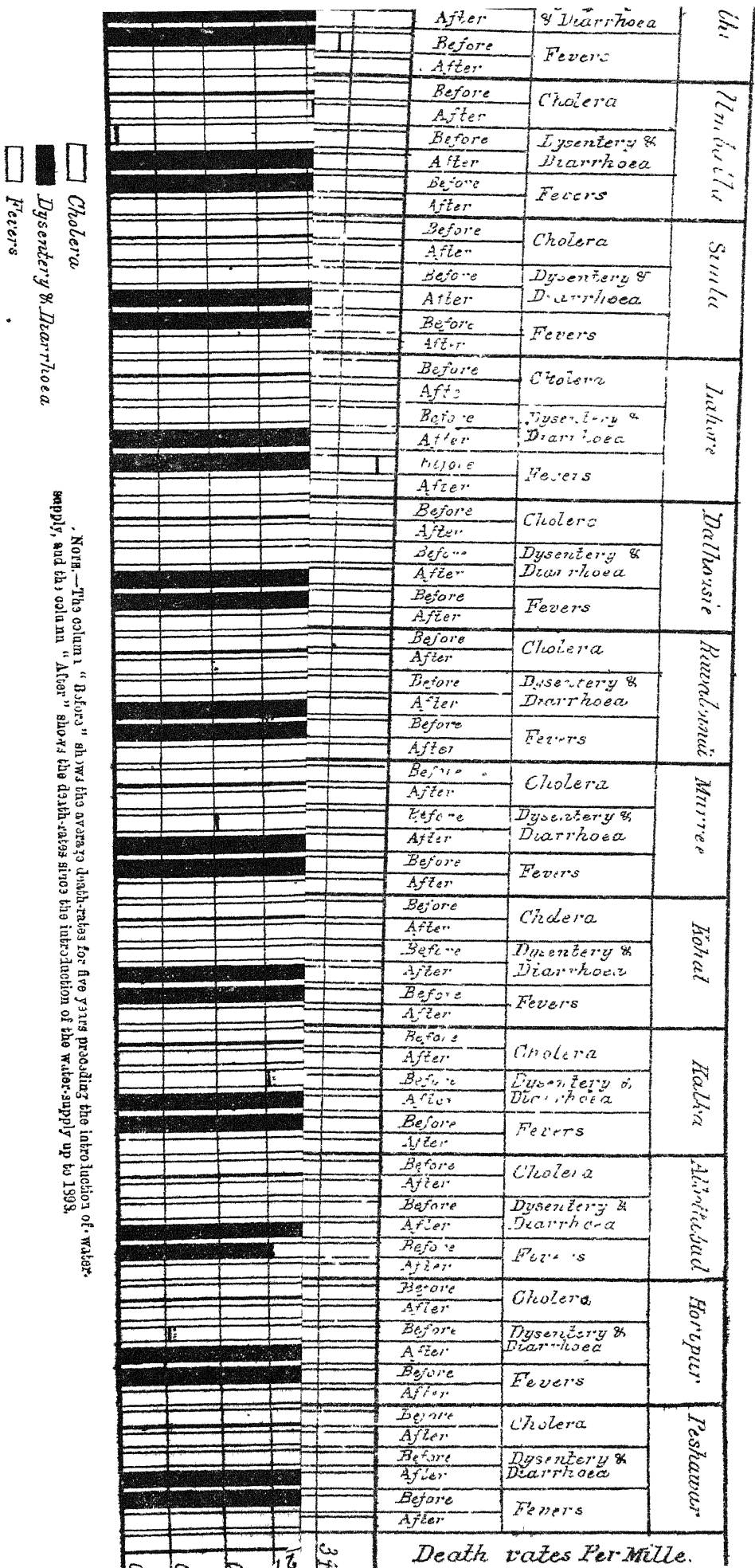
| Towns and rural circles. | Date of completion of works of | | Average annual death-rate since the introduction of drainage or water supply, or both. | | | | Average annual death-rate for the five-year period preceding the introduction of drainage or water-supply, or both. | | | | REMARKS. | |
|--------------------------|--------------------------------|-------------------|--|------------|---------|--------------------------|---|------------|---------|--------------------------|---|-----|
| | Drainage. | Water-supply. | Cholera. | Small-pox. | Fevers. | Dysentery and diarrhoea. | Cholera. | Small-pox. | Fevers. | Dysentery and diarrhoea. | | |
| TOWNS. | | | | | | | | | | | | |
| Delhi | ... | 1893 | ... | 1.0 | 20.8 | 1.6 | 0.4 | 0.1 | 26.7 | 1.9 | * The works were begun in 1876 and completed in 1893. | |
| Umballa | ... | 1895 | 0.1 | 0.9 | 11.2 | 4.4 | 0.5 | 0.4 | 19.3 | 6.1 | | |
| Simla | 1893 | 1893 ⁴ | ... | 0.3 | 14.9 | 0.6 | ... | 1.1 | 17.1 | 1.4 | | |
| Ludhiána | ... | 1893 | ... | 0.4 | 14.4 | 3.3 | 0.9 | 1.4 | 25.8 | 2.5 | | |
| Lahore | ... | 1881 | 0.9 | 0.8 | 19.9 | 1.6 | 1.9 | 1.6 | 27.8 | 2.3 | | |
| Amritsar | ... | 1885 | 0.3 | 0.2 | 26.7 | 1.9 | 0.9 | 1.3 | 32.3 | 3.2 | | |
| Dalhousie | ... | 1891 | ... | 0.2 | 12.4 | 2.5 | ... | ... | 9.6 | 2.4 | | |
| Gujránwála | ... | 1892 | ... | 0.2 | 0.4 | 14.5 | 1.2 | 0.5 | 0.6 | 19.7 | | 1.7 |
| Sialkot | ... | 1898 | ... | 0.1 | 1.1 | 16.9 | 2.8 | ... | 0.9 | 9.3 | | 3.5 |
| Ráwalpindi | ... | 1887 | 0.9 | 0.4 | 22.5 | 2.4 | 0.5 | 0.1 | 16.4 | 3.4 | | |
| Murree | ... | 1894 | 0.3 | ... | 18.1 | 1.7 | 0.7 | 0.4 | 14.8 | 0.9 | | |
| Kohát | ... | 1892 | 1893 | ... | 1.0 | 17.4 | 1.4 | 6.5 | 1.9 | 20.9 | 2.2 | |
| Kálka | ... | 1890 | 0.4 | 0.1 | 16.8 | 2.6 | 1.7 | 0.2 | 15.2 | 3.9 | | |
| Jullundur | ... | 1891 | ... | 0.4 | 0.3 | 18.0 | 2.3 | 0.5 | 0.1 | 15.9 | 2.9 | |
| Bunga | ... | 1890 | ... | 0.5 | 0.5 | 13.6 | 3.8 | 0.2 | 1.3 | 13.3 | 2.7 | |
| Abbottabad | ... | 1892 | 0.6 | 0.1 | 9.7 | 0.4 | 0.6 | ... | 8.9 | 0.7 | | |
| Harípur | ... | 1896 | 0.2 | 2.2 | 13.3 | 1.0 | 4.0 | 0.2 | 17.3 | 2.3 | | |
| Pesháwar | ... | 1888 | 1892 | 0.6 | 1.6 | 22.1 | 1.3 | 1.1 | 4.2 | 19.3 | 1.9 | |
| RURAL CIRCLES. | | | | | | | | | | | | |
| Gurdáspur | ... | 1894 | ... | 0.3 | 22.8 | 1.0 | 0.2 | 0.1 | 38.7 | 2.1 | | |
| Kalánaur | ... | 1894 | ... | 0.2 | 21.1 | 1.1 | ... | 0.8 | 32.9 | 2.8 | | |
| Dunera | ... | 1894 | ... | 0.2 | 20.9 | 0.3 | 0.2 | ... | 21.5 | 0.9 | | |
| Shahgarib | ... | 1894 | ... | 0.3 | 24.9 | 1.2 | 0.1 | 0.3 | 42.4 | 1.3 | | |
| Fatehgarh | ... | 1894 | ... | 0.1 | 21.7 | 0.9 | 0.1 | 0.2 | 31.2 | 2.2 | | |
| Kahnúwán | ... | 1894 | ... | 0.3 | 19.8 | 1.4 | ... | 0.1 | 41.8 | 1.2 | | |
| Dera Nának... .. | ... | 1894 | ... | 0.1 | 21.2 | 0.8 | ... | 0.1 | 37.3 | 0.8 | | |

In paragraph 13 of the Review of the Sanitary Report for 1897 a statement was given showing the death-rates from cholera, small-pox, fevers and bowel-complaints before and after the introduction of water-supply in certain towns of the Punjab. I have given the statistics this year in the form of a chart, as it shows the results at a glance.

With very few exceptions, the statistics show a marked improvement in the health of towns in which the water-supply was introduced.

It is only after some years that the people take to using pipe water ; one great objection they have to pipe water is that it is so much warmer than well water. The only way to stop this is to have the reservoirs well covered and the pipes laid much deeper.

Chart showing the death-rates from cholera, dysentery and diarrhoea and fevers before and after the introduction of water-supply in the under-mentioned towns.



Section X.—General Remarks and Personal Proceedings.

44. Lieutenant-Colonel W. A. Crawford Roe, I.M.S., Sanitary Commissioner, Punjab, was in charge of the Department up to the 22nd of August 1898 when he proceeded on one year's furlough. I took over charge from him on that date and remained in charge to the end of the year.

The office of the Deputy Sanitary Commissioner, Punjab, was held by Captain C. H. James, I.M.S., from the 1st January to 13th November 1898, but he was engaged all that time on plague duty in the Jullundur district. On his being appointed Civil Surgeon of Dharmasala he was succeeded by Captain E. Wilkinson, I.M.S., who was in charge of the office up to the end of the year. Captain Wilkinson also worked as Plague Medical Officer, Banga, in addition to his duties as Deputy Sanitary Commissioner, Punjab, from the 14th November to the end of the year.

45. As Professor of Hygiene I delivered the usual number of lectures to the students of the Medical College in the months of November, December 1898 and January 1899.

46. Lieutenant-Colonel W. A. Crawford Roe, I.M.S., made sanitary inspections of the following towns:—In January the towns of Umballa, Lahore, Thanesar, Shahabad, Karnal and 6 villages; in February the towns of Amritsar, Jandiala, Kartarpur, Phillour, Ludhiana, Khanna and 7 villages; in March and April the towns of Lahore, Delhi and one village; in April and May the towns of Delhi, Peshawar, Rawalpindi, Murree, Kalka, Simla and one village.

I visited and inspected the following places:—In September the towns of Simla and Sanawar and the States of Theog and Kumersain and 5 villages; in October the towns of Dharmasala, Pathankot, Mandi State and 16 villages; in November the towns of Rawalpindi, Hassan Abdal, Abbottabad and Amritsar and 5 villages; in December the towns of Tarn Taran, Majitha and 4 villages.

Inspection work of Civil Surgeons and Assistant Surgeons.

17. The following table shows the number of municipal towns and smaller towns and villages inspected by the Civil Surgeons and Assistant Surgeons during the year:—

Statistical Survey of the Municipal Towns and the number of smaller towns and villages inspected.

| No. | District | NUMBER OF TOWNS & VILLAGES INSPECTED BY | | | | Number of days the Civil Surgeons were on tour | Number of days the Asst. and Surgeons were on tour | REMARKS & CIVIL SURGEONS |
|-------|--------------|---|----------------------------|-------|----------------------------|--|--|---|
| | | Town | Villages and smaller towns | Towns | Villages and smaller towns | | | |
| 1 | Hissar | 1 | 22 | | | 27 | | In p. etc. Is sanitation, vaccination and vital statistics. Sanitary inspection of towns and villages (wells, latrines and slaughter-houses), and in the necessary recommendations. Inspection of factories. |
| 2 | Rohilk | 5 | 27 | | | 26 | | |
| 3 | Gurgaon | 13 | 152 | | | 16 | | |
| 4 | Delhi | 1 | 7 | | | 10 | | * Many of the villages and especially the municipal towns were visited more than twice, but their number is not given. The inspections of vaccination, sanitation and chowkidars' memo books of births and deaths was done. Many smaller towns and villages inspected. |
| 5 | Kullu | | 21 | 6 | 112 | 5 | 17 | |
| 6 | Udhampur | 1 | * | | | 20 | | |
| 7 | Simla | | | | | | | In every municipal town and village the chief persons were collected and along with them the water supply, drains and the moure godowns were inspected. The chief defects were pointed out to them and the disadvantages of the present state were described. It appears that the people are getting sensible, though very slowly. |
| 8 | Kangra | 6 | 16 | | 137 | 1 | 30 | |
| 9 | Hoshiarpur | 14 | 120 | | | 61 | | |
| 10 | Jullundur | 6 | 90 | | | 40 | | Vaccination and sanitation inspection. |
| 11 | Ludhiana | 5 | 25 | | | 6 | | |
| 12 | Ferozepur | 8 | 48 | | 19 | 15 | 2 | |
| 13 | Mooltan | 15 | 10 | | | 33 | | * The towns and villages were inspected when going to inspect the dispensaries and vaccination, but their number is not given. The Civil Surgeon could not inspect any outlying villages. |
| 14 | Jhang | 3 | 223 | | | 19 | | |
| 15 | Montgomery | | * | 3 | 72 | | | |
| 16 | Lahore | 6 | | 1 | | 7 | 1 | Inspected the towns in which dispensaries are situated. Pointed out defects to village officials and others resident therein, and how the defects can best be removed and how to prevent contamination of the soil and drinking water. |
| 17 | Amritsar | 7 | 48 | | | 25 | | |
| 18 | Gurdaspur | 3 | 33 | | | 3 | | |
| 19 | Sialkot | 4 | 10 | | | 10 | | All these were inspected during the short tour of vaccination inspection not exceeding 24 hours or so. The registers of 21 villages were examined. The sanitation of 3 municipal towns and 33 villages was inspected during the year. |
| 20 | Gujrat | 3 | 220 | | | 78 | | |
| 21 | Gujranwala | 6 | 101 | | | 10 | | |
| 22 | Shahpur | 10 | 16 | | | 18 | | Vaccination inspections were made, birth and death registers were examined. The water supplies were inspected and defects in the construction of the wells, etc., pointed out, also the drainage and general sanitary state of the surroundings of the towns and villages were seen to and their defects pointed out to the bodies concerned or brought to the notice of the Deputy Commissioner of the district. |
| 23 | Jhelum | 3 | 55 | | | 50 | | |
| 24 | Rawalpindi | 3 | 15 | | | 16 | | |
| 25 | Hazara | 1 | 1 | | | 9 | | Inspected sanitation and tested the accuracy of chowkidars' register of births and deaths. Usual inspections of towns and village sites, wells, etc., were made. |
| 26 | Peshawar | 1 | | | | 6 | | |
| 27 | Konak | 1 | 6 | | | 6 | | |
| 28 | Bannu | 3 | | | | | | The Civil Surgeon could not be spared from his military duties. Vaccination inspected and sanitary state of villages seen. Their defects were pointed out to the landlords and the inhabitants of the villages. |
| 29 | Dera Is Khan | 5 | 3 | | | 6 | | |
| 30 | Dera G. Khan | 2 | 11 | | 1 | 23 | 1 | |
| 31 | Muzaffargarh | 4 | 303 | | | 63 | | Inspection made many times. |
| Total | | 150 | 1,662 | 11 | 371 | 753 | 91 | |

This statement shows that in 1898 the Civil Surgeons inspected 150 towns and 1,662 villages compared with 134 towns and 2,108 villages in 1897. The Assistant Surgeons inspected 11 towns and 371 villages, compared with 14 towns and 159 villages.

48. From the Lawrence Military Asylum, Sanáwar, one death of a boy was reported during the year. The average strength of boys was 273.42 and of girls 205.75. The average number daily sick amongst boys and girls, respectively, was 4.77 and 4.39 or 1.74 and 2.13 per cent of strength. The number of total admissions from different diseases was 144 amongst boys and 113 amongst girls, the largest number of admissions being from simple, continued and intermittent and remittent fevers.

I inspected this Asylum on the 15th of September 1893, and submitted my report.

49. In the Lawrence Memorial Asylum, Murree, there was no death registered. The average strength of the Asylum was 67.95 for males and 64.87 for females. The average number daily sick was 0.50 and 0.20, respectively, showing a percentage of 0.68 for boys and 0.12 for girls. There were 47 admissions from different diseases during the year.

50. The following statement shows the birth and death-rates in the selected villages situated on the Western Jumna Canal, in the districts of Hissár, Rohtak, Delhi and Karnál since 1893, the year from which the tabulation of special statistics in those areas was instituted:—

| DISTRICTS | BIRTH-RATE PER 1000 | | | | | | DEATH-RATE PER 1000 | | | | | |
|-----------|---------------------|------|------|------|------|------|---------------------|------|------|------|------|------|
| | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 |
| Hissár | 34 | 42 | 40 | 39 | 35 | 3 | 23 | 25 | 27 | 25 | 12 | 28 |
| Rohtak | 40 | 43 | 50 | 48 | 46 | 15 | 22 | 23 | 23 | 35 | 28 | 31 |
| Delhi | 41 | 46 | 42 | 47 | 48 | 1 | 27 | 27 | 23 | 33 | 32 | 24 |
| Karnál | 46 | 52 | 51 | 52 | 55 | 12 | 27 | 41 | 39 | 45 | 43 | 42 |

51. From Appendix G. attached to this report it will be seen that 1,908 wells were cleaned and a number of platforms repaired and constructed. The district in which most substantial progress was made in this direction was Gujránwála, in which the Deputy Commissioner says "that the Municipal Committee return 410 wells as cleaned out and 32 wells as repaired, and the District Board 46 and 4, respectively."

52. With regard to the gratuitous distribution of quinine Lieutenant J. A. Dredge, I.M.S., the Civil Surgeon of Dera Gházi Khan, states that "a special sum of Rs. 60 per annum is sanctioned by the Deputy Commissioner of the district for purchase of medicines required by Vaccinators, and also a fairly large sum for the purchase of quinine for distribution to headmen of villages, Tumandárs and Tahsildárs, &c. Quinine was freely distributed in the district. Major Stephen Little, I.M.S., Civil Surgeon of Ráwalpindi, says that "quinine and sulphate of iron both to the value of Rs. 200 were purchased from the District Funds and powders and pills were made at the Civil Hospital, Ráwalpindi, and distributed through lambardárs in the villages for the use of fever and spleen cases as directed in Punjab Government letter No. 16, dated the 12th January 1894." Dr. Davis, Civil Surgeon, Gujránwála, says that "the Vaccination Staff were supplied with quinine for gratuitous distribution among fever-stricken people in the localities where the disease prevailed, and powders were also supplied to

the zaildars and lambardars of various villages through the police for distribution, which proved a great boon to the people, and was freely applied for."

53. Under the head of sewage farms there is little or nothing to be added to what was said in the report for the previous year.

See also farm

The Secretary, Municipal Committee, Delhi, says: "That a filth-trenching farm was established in Mouza Khandrat Kalán, so as to do away with the evils resulting from putting filth and then opening them for sale of manure. The area taken up is 254 *purca bighás*; most of the land is *nazúl*, but some of it has been leased to private owners to get right of way for the canal and also to include it in a ring fence. Most of the filth from the 11 wards within the city walls is now trenched in Khandrat Kalán, and the fields so treated are let out at a better rate than before. (1) because of the trenching, (2) on account of the canal water brought to the land. This system not only improves the *nazúl* property, but does away with the necessity of 'putting' the filth, which is so very objectionable from a sanitary point of view. No filth is now buried in the oblong pits near the slaughter-house, and in consequence there is no direct sale of manure (or melon fields chiefly) in that locality. This new system of treating the filth, as of course affected the income from 'sale of filth,' and the income from it this year will be lessened every year as the system is extended."

54. Mr. J. M. Douie, Deputy Commissioner of the Gurdáspur district, *Khasia and towns* states that "20 rewards on this account were given during *villages and towns* 1898. At the District Board Meeting held on 7th February 1898, Rs. 400 were sanctioned for this purpose, but the reports received from Tahsildars show that no village is worthy of such rewards." The Delhi Division was excused from making the experiment in 1898 on the ground that some of the District Boards were bankrupt, and the funds of all have been abnormally reduced owing to famine expenditure in the past year, *vile* Punjab Government letter No. 210, dated 6th February 1898, to the Commissioner and Superintendent of the Delhi Division. This matter has been dealt with separately and a separate report submitted in accordance with paragraph 16 of Punjab Government letter No. 12, dated 5th July 1898.

55. With regard to the "village sanitary note-books" very little has been *Village sanitary* said by the District Officers. The Deputy Commissioner *book* of Gurdáspur, Mr. Douie, says that "sanitary note-books have been kept in 12 villages in this district, but that there is nothing important to note at present in this connection. The only notes are those made when they were first started, and he doubts whether these books will ever be of much practical value."

Sanitary Board Proceedings.

56. There were no meetings held by the Sanitary Board during the year, but the following papers were submitted to the members for inspection :—

(1) Punjab Government Endorsement No. 1481, dated the 15th December 1897, regarding the proposed improvement of village sanitation by means of rewards.
Circulated, *vide* Nos 266 to 270, dated 6th January, 1898.

(2) Punjab Government No. 211, dated 9th February 1898, on the subject of exemption of the Delhi Division, from making the experiment during the current year of awarding villagers for improved sanitation of their villages.
Circulated, *vide* Nos 45 to 52, dated 24th January 1898.

(3) Minutes of the third meeting of the North-Western Provinces and Oudh. Sanitary Board, held at Lucknow, on the 21st December 1897.
Circulated, *vide* Nos 53 to 56, dated 14th April 1898.

(4) Proceedings of the twenty-fifth meeting of the Sanitary Board, Bengal, held at Calcutta, on the 11th March 1898.
Circulated *vide* Nos 60 to 64, dated 14th April 1898.

(5) Printed correspondence with a plan received, *vide* Chief Engineer, Public Works Department, Punjab, Endorsement No. 2358, dated 13th April 1898, on the subject of the drainage of the town of Ferozepore.
Circulated, *vide* Nos. 67 to 70, dated 9th May 1898.

(6) Punjab Government Proceedings Nos. 5—15, for May 1898, on the subject of term of settlement of the Neli Circle of the Kharar Tahsil, in the Umballa District.
Circulated, *vide* Nos 74 to 78, dated 28th June 1898.

(7) Correspondence (printed copy) received, *vide* Punjab Government Endorsement No. 373, dated 18th July 1898, on the subject of immediate repayment of the balance of loan for construction of water-works in the Kohát city.
Circulated, *vide* Nos 85 to 89, dated 4th August 1898.

(8) Proceedings of the fourth meeting of the North-Western Provinces and Oudh, Sanitary Board, held at Naini Tal, on 23rd June 1898.
Circulated, *vide* Nos 98 to 97, dated 31st August 1898.

(9) Punjab Government Proceedings, Nos. 47 to 97, for July 1898, regarding Thánesar Solar Eclipse Fair of 1898.
Circulated, *vide* Nos. 98 to 102, dated 22nd September 1898.

(10) Minutes of the fifth meeting of the North-Western Provinces and Oudh, Sanitary Board, held at Naini Tal, on the 23rd September 1898.
Circulated, *vide* Nos 182 to 186, dated 14th December 1898.

(11) Minutes of the sixth meeting of the North-Western Provinces and Oudh, Sanitary Board, held at Naini Tal, on the 15th October 1898.
Circulated, *vide* Nos 177 to 181, dated 14th December 1898.

57. The reason why no meetings have been held, appears to be that the general feeling among the members is that the Board having no executive power, meets uselessly. The matter of giving executive authority to the Board is now under consideration and will be laid before the Board at its next meeting at Simla.
The reason why no meetings were held.

58. I may say in conclusion that, judging from what I have seen in the chief towns of the Province and from reading the reports of my predecessors, there has been a good deal done to improve the sanitary state of many of these towns in the last few years.
Conclusion.

C. J. BAMBER, Lt.-Col., I.M.S.,

15th May 1899.

Offg. Sanitary Commissioner, Punjab.

ANNUAL FORM

STATEMENT OF BIRTHS AND DEATHS REGISTERED IN EACH DISTRICT OF THE PUNJAB AND THE

| Serial No. | Districts | Area in square miles. | Average population per square mile. | POPULATION IN 1901. | | | Births. | |
|-------------------------------|----------------------|-----------------------|-------------------------------------|---------------------|-----------|------------|---------------|-------------------------------------|
| | | | | Males. | Females. | Total. | Total number. | Birth rate per 1,000 of population. |
| | | | | | | | | |
| 1 | | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Delhi Division. | | | | | | | | |
| 1 | Distt. ... | 5,103 | 150 | 114,801 | 331,007 | 775,805 | 33,528 | 43.2 |
| 2 | Rohtak ... | 1,707 | 328 | 313,426 | 277,020 | 590,446 | 27,036 | 45.8 |
| 3 | Gurgaon ... | 1,981 | 337 | 250,191 | 218,069 | 468,260 | 35,479 | 55.0 |
| 4 | Delhi ... | 1,200 | 102 | 312,077 | 293,117 | 605,194 | 28,501 | 44.9 |
| 5 | Karnal ... | 2,110 | 280 | 467,665 | 393,429 | 861,094 | 36,846 | 42.8 |
| 6 | Unahilly ... | 2,751 | 337 | 435,718 | 366,136 | 801,854 | 29,543 | 36.7 |
| 7 | Simla ... | 102 | 310 | 22,165 | 13,081 | 35,246 | 768 | 21.8 |
| Jullundur Division. | | | | | | | | |
| 8 | Kangra ... | 9,574 | 79 | 391,102 | 365,050 | 756,152 | 26,569 | 35.0 |
| 9 | Hoshiarpur ... | 2,211 | 151 | 510,038 | 471,006 | 981,044 | 39,522 | 39.1 |
| 10 | Jullundur ... | 1,473 | 622 | 481,630 | 409,717 | 891,347 | 37,561 | 42.1 |
| 11 | Ferozepore ... | 1,453 | 410 | 354,972 | 304,283 | 659,255 | 27,646 | 42.6 |
| 12 | Ferozepore ... | 1,302 | 200 | 469,346 | 392,153 | 861,499 | 39,413 | 45.7 |
| Lahore Division. | | | | | | | | |
| 13 | Mooltan ... | 6,079 | 102 | 339,668 | 281,191 | 620,859 | 24,186 | 39.0 |
| 14 | Jhang ... | 5,871 | 74 | 233,579 | 203,242 | 436,821 | 23,338 | 53.4 |
| 15 | Montgomery ... | 5,754 | 87 | 209,569 | 229,880 | 439,449 | 18,867 | 37.8 |
| 16 | Lahore ... | 3,678 | 267 | 379,116 | 476,503 | 855,619 | 46,800 | 44.3 |
| 17 | Amritsar ... | 1,601 | 619 | 541,932 | 449,058 | 990,990 | 41,679 | 45.1 |
| 18 | Gurdaspur ... | 1,889 | 498 | 511,129 | 429,656 | 940,785 | 40,520 | 43.5 |
| Rawalpindi Division. | | | | | | | | |
| 19 | Siālkot ... | 1,901 | 552 | 584,638 | 514,074 | 1,098,712 | 49,361 | 44.9 |
| 20 | Gujrat ... | 2,051 | 371 | 400,485 | 360,338 | 760,823 | 28,558 | 36.1 |
| 21 | Gujranwāla ... | 3,017 | 229 | 378,972 | 311,089 | 690,061 | 37,104 | 53.8 |
| 22 | Shahpur ... | 4,840 | 102 | 258,118 | 235,417 | 493,535 | 19,252 | 39.0 |
| 23 | Jhelum ... | 3,995 | 152 | 315,011 | 290,763 | 605,774 | 20,858 | 33.6 |
| 24 | Rawalpindi ... | 4,844 | 175 | 447,549 | 397,710 | 845,259 | 28,861 | 34.1 |
| Peshawar Division. | | | | | | | | |
| 25 | Hazara ... | 2,787 | 170 | 253,105 | 223,020 | 476,125 | 16,641 | 35.0 |
| 26 | Peshawar ... | 2,444 | 273 | 361,439 | 317,744 | 679,183 | 20,252 | 29.8 |
| 27 | Kohāt ... | 2,771 | 69 | 96,577 | 85,910 | 182,487 | 6,863 | 34.9 |
| Derajat Division. | | | | | | | | |
| 28 | Bannu ... | 3,847 | 96 | 195,514 | 174,458 | 369,972 | 13,119 | 35.5 |
| 29 | Dera Ismail Khan ... | 9,440 | 51 | 257,411 | 225,052 | 482,463 | 14,775 | 30.6 |
| 30 | Dera Ghazi Khan ... | 5,600 | 71 | 218,359 | 181,501 | 399,860 | 12,246 | 30.6 |
| 31 | Muzaffargarh ... | 3,422 | 111 | 206,908 | 174,164 | 381,072 | 13,877 | 35.1 |
| Total for the Province | | 110,463 | 186 | 11,037,908 | 9,516,074 | 20,553,982 | 841,869 | 41.0 |

NOTE—Those born dead are not to be included

No. II.

RECEIPTS AND EXPENDITURE IN EACH DISTRICT, FROM AND ON, CONSERVANCY, DURING THE YEAR 1898.

| 7 | | | 8 | 9 | | | | | | | | | 10 | | | 11 | 12 | 13 |
|------------------------------|----------|---------|---|--------------------------------------|------------|----------|--------------------------|------------|-------------------|-------------|----------|--------|---|----------|--------|--|--|------------|
| NUMBER OF DEATHS REGISTERED. | | | Number of deaths of males to every 100 deaths of females. | DEATHS PER 1000 POPULATION BY CAUSE. | | | | | | | | | MEAN RATIO OF DEATHS PER 1000 DURING PREVIOUS FIVE YEARS. | | | Net receipt of each district from conservancy. | Net expenditure in each district on conservancy. | Serial No. |
| Males. | Females. | Total. | | Cholera. | Small-pox. | Typhoid. | Dysentery and diarrhoea. | Influenza. | All other causes. | All causes. | | | Males. | Females. | Total. | | | |
| | | | | | | | | | | Males. | Females. | Total. | | | | | | |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| | | | | | | | | | | | | | | | | Rs. | Rs. | |
| 11,242 | 10,259 | 21,501 | 109.6 | .. | 0.1 | 20.0 | 0.7 | 0.2 | 6.7 | 27.1 | 28.1 | 27.7 | 31.1 | 31.8 | 31.4 | 2,199 | 17,816 | 1 |
| 9,003 | 8,218 | 17,221 | 109.6 | .. | ... | 20.7 | 0.6 | 0.2 | 7.7 | 28.7 | 29.7 | 29.2 | 30.2 | 29.0 | 29.9 | 233 | 6,266 | 2 |
| 12,867 | 11,566 | 24,433 | 111.2 | .. | 0.3 | 20.0 | 1.4 | 0.1 | 8.4 | 30.7 | 30.3 | 30.5 | 32.5 | 31.8 | 32.2 | 532 | 8,957 | 3 |
| 10,820 | 10,306 | 21,126 | 105.0 | ... | 0.2 | 19.1 | 1.2 | 0.3 | 12.5 | 31.0 | 35.2 | 33.3 | 31.2 | 33.7 | 35.4 | 5,375 | 82,426 | 4 |
| 16,925 | 15,728 | 32,653 | 107.6 | ... | 0.4 | 25.1 | 0.7 | 0.4 | 11.4 | 36.2 | 40.0 | 37.9 | 37.3 | 40.5 | 38.8 | 282 | 12,550 | 5 |
| 12,559 | 12,086 | 24,645 | 103.9 | ... | 1.1 | 19.6 | 0.8 | 0.2 | 9.0 | 25.6 | 33.0 | 30.6 | 37.2 | 39.9 | 38.4 | 249 | 10,759 | 6 |
| 448 | 312 | 760 | 143.6 | ... | ... | 9.8 | 1.9 | 0.4 | 9.5 | 20.2 | 23.9 | 21.6 | 23.7 | 28.1 | 25.4 | 401 | 31,754 | 7 |
| 11,478 | 11,338 | 22,816 | 101.2 | ... | ... | 20.5 | 0.3 | 0.4 | 8.2 | 29.1 | 31.1 | 30.0 | 31.2 | 31.9 | 31.5 | ... | 3,430 | 8 |
| 14,413 | 13,961 | 28,374 | 103.2 | ... | 0.3 | 15.3 | 1.1 | 0.3 | 11.1 | 26.7 | 29.6 | 28.1 | 32.2 | 34.4 | 33.2 | 1,285 | 10,098 | 9 |
| 13,469 | 13,816 | 27,285 | 97.5 | ... | 0.1 | 13.9 | 0.8 | 0.3 | 15.5 | 28.0 | 33.7 | 30.6 | 32.0 | 38.1 | 34.8 | 2,661 | 16,649 | 10 |
| 10,359 | 10,597 | 20,956 | 97.8 | ... | 0.2 | 19.2 | 0.6 | 0.3 | 11.9 | 29.2 | 36.0 | 32.3 | 31.4 | 38.1 | 34.4 | 6,010 | 13,400 | 11 |
| 13,059 | 12,764 | 25,823 | 102.3 | ... | 0.4 | 18.3 | 0.7 | 0.3 | 10.3 | 27.8 | 32.6 | 30.0 | 28.0 | 31.2 | 29.5 | 2,110 | 9,077 | 12 |
| 9,422 | 8,310 | 17,732 | 113.4 | .. | 0.1 | 19.8 | 0.7 | 0.5 | 7.6 | 27.7 | 29.6 | 28.6 | 28.8 | 30.9 | 29.7 | 6,600 | 23,715 | 13 |
| 9,194 | 8,013 | 17,207 | 114.7 | ... | 0.1 | 20.9 | 0.8 | 0.6 | 17.1 | 30.4 | 39.4 | 39.4 | 28.7 | 29.5 | 29.1 | 3,280 | 8,741 | 14 |
| 5,571 | 5,053 | 10,624 | 110.3 | ... | 0.6 | 10.5 | 0.4 | 0.4 | 9.4 | 20.7 | 22.0 | 21.3 | 24.8 | 25.4 | 25.1 | 166 | 3,082 | 15 |
| 17,715 | 16,240 | 33,955 | 109.1 | ... | 0.3 | 19.4 | 0.6 | 0.4 | 11.5 | 30.6 | 34.1 | 32.2 | 30.4 | 32.8 | 31.5 | 12,906 | 74,487 | 16 |
| 16,850 | 16,753 | 33,603 | 100.6 | ... | 0.3 | 19.2 | 1.0 | 0.3 | 13.1 | 31.1 | 37.3 | 33.9 | 34.1 | 39.0 | 36.3 | 45,288 | 72,332 | 17 |
| 15,058 | 14,835 | 30,793 | 107.6 | ... | 0.2 | 20.4 | 1.7 | 0.2 | 16.2 | 31.2 | 34.5 | 32.7 | 33.0 | 34.5 | 33.7 | 12,040 | 14,830 | 18 |
| 18,641 | 17,806 | 36,447 | 104.7 | .. | 0.6 | 20.9 | 1.1 | 0.3 | 10.3 | 31.9 | 34.6 | 33.2 | 30.7 | 30.7 | 30.7 | 19,110 | 17,880 | 19 |
| 10,832 | 10,223 | 21,055 | 106.0 | ... | .. | 18.5 | 0.7 | 0.2 | 8.3 | 27.1 | 28.4 | 27.7 | 23.8 | 23.3 | 23.6 | 2,090 | 5,312 | 20 |
| 13,235 | 12,191 | 25,426 | 108.6 | ... | ... | 27.0 | 0.3 | 0.6 | 9.0 | 34.9 | 39.2 | 36.9 | 29.6 | 31.8 | 30.6 | 10,509 | 16,728 | 21 |
| 6,933 | 6,355 | 13,288 | 109.1 | ... | ... | 16.8 | 0.9 | 0.5 | 8.7 | 26.9 | 27.0 | 26.9 | 26.2 | 25.5 | 25.9 | 1,830 | 7,200 | 22 |
| 9,291 | 8,840 | 18,131 | 105.1 | ... | 0.1 | 20.5 | 0.7 | 0.4 | 8.3 | 29.5 | 30.4 | 29.9 | 28.0 | 28.2 | 28.1 | 213 | 7,020 | 23 |
| 13,508 | 12,576 | 26,084 | 107.4 | ... | 0.1 | 22.8 | 0.2 | 0.5 | 7.3 | 30.2 | 31.6 | 30.9 | 32.7 | 32.9 | 32.8 | 1,488 | 44,122 | 24 |
| 5,200 | 5,003 | 10,203 | 103.9 | ... | 0.3 | 14.9 | 0.1 | 0.3 | 5.9 | 20.5 | 22.4 | 21.4 | 23.6 | 25.6 | 24.6 | 441 | 5,369 | 25 |
| 8,935 | 6,939 | 15,874 | 123.8 | ... | 0.2 | 19.7 | 0.2 | 0.4 | 2.9 | 24.7 | 21.8 | 23.4 | 24.1 | 22.6 | 23.4 | 3,240 | 21,211 | 26 |
| 2,988 | 2,708 | 5,696 | 110.3 | ... | 0.5 | 24.9 | 0.2 | 0.5 | 5.2 | 30.9 | 31.5 | 31.2 | 32.0 | 31.5 | 31.7 | 322 | 5,056 | 27 |
| 6,531 | 5,661 | 12,192 | 115.4 | ... | ... | 28.0 | 0.5 | 0.4 | 4.1 | 33.4 | 32.5 | 33.0 | 29.4 | 28.8 | 29.1 | 2,843 | 9,580 | 28 |
| 10,176 | 9,175 | 19,351 | 110.9 | ... | 0.2 | 32.3 | 1.1 | 0.4 | 6.2 | 39.5 | 40.8 | 40.1 | 31.3 | 32.3 | 31.7 | 1,956 | 13,856 | 29 |
| 6,189 | 4,973 | 11,162 | 124.5 | ... | 0.3 | 24.3 | 0.4 | 0.4 | 2.6 | 28.3 | 27.4 | 27.9 | 25.7 | 25.7 | 25.7 | 1,709 | 10,113 | 30 |
| 6,207 | 5,501 | 11,708 | 112.8 | ... | 0.1 | 26.3 | 0.5 | 0.5 | 3.3 | 30.0 | 31.6 | 30.7 | 28.9 | 30.4 | 29.6 | 1,070 | 3,722 | 31 |
| 330,018 | 308,106 | 638,124 | 107.1 | ... | 0.2 | 20.4 | 0.8 | 0.4 | 9.3 | 29.9 | 32.4 | 31.1 | 30.6 | 32.2 | 31.3 | 1,48,501 | 5,90,777 | |

in this or any of the other Statements.

ANNUAL FORM No. III.

DEATHS REGISTERED IN THE DISTRICTS OF THE PUNJAB DURING EACH MONTH OF THE YEAR 1898

| 1 | 2 | 3 | | | | | | | | | | | | 4 | 5 |
|--|------------------|---------|----------|--------|--------|--------|--------|--------|--------|-----------|---------|----------|----------|--|-----|
| | | January | February | March | April | May | June | July | August | September | October | November | December | Total deaths registered during the year. | No. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Delhi Division. | | | | | | | | | | | | | | | |
| 1 | Hissar | 1,804 | 1,857 | 1,811 | 1,800 | 1,810 | 2,067 | 1,792 | 1,852 | 1,851 | 2,192 | 2,170 | 1,878 | 21,501 | 1 |
| 2 | Ranikhet | 1,220 | 907 | 1,218 | 1,110 | 1,129 | 1,770 | 1,179 | 1,498 | 1,557 | 1,841 | 2,113 | 1,172 | 17,221 | 2 |
| 3 | Gurgaon | 1,770 | 1,246 | 1,827 | 1,907 | 2,210 | 2,700 | 2,056 | 1,957 | 2,258 | 2,054 | 2,195 | 2,147 | 24,433 | 3 |
| 4 | Dehra | 1,905 | 1,182 | 27 | 1,007 | 1,800 | 222 | 1,390 | 1,709 | 1,690 | 1,958 | 2,045 | 2,171 | 21,126 | 4 |
| 5 | Karnal | 2,705 | 177 | 1,825 | 207 | 1,888 | 1,511 | 5,065 | 2,600 | 2,011 | 3,211 | 2,950 | 2,058 | 32,655 | 5 |
| 6 | Unnao | 2,122 | 1,171 | 1,588 | 1,805 | 2,205 | 2,120 | 1,981 | 1,752 | 2,190 | 2,516 | 2,340 | 2,211 | 24,645 | 6 |
| 7 | Simla | 48 | 46 | 60 | 12 | 78 | 85 | 67 | 82 | 63 | 51 | 60 | 59 | 760 | 7 |
| Jullundur Division. | | | | | | | | | | | | | | | |
| 8 | Kangra | 1,761 | 1,165 | 1,477 | 2,150 | 1,964 | 2,212 | 1,171 | 2,018 | 2,382 | 1,999 | 1,758 | 2,150 | 22,816 | 8 |
| 9 | Hoshiarpur | 2,047 | 1,713 | 1,808 | 2,160 | 2,227 | 2,292 | 1,859 | 2,217 | 3,200 | 3,463 | 2,724 | 2,569 | 28,371 | 9 |
| 10 | Jullundur | 1,997 | 1,619 | 2,361 | 1,907 | 2,312 | 2,610 | 2,148 | 2,076 | 2,430 | 2,690 | 2,550 | 2,516 | 27,285 | 10 |
| 11 | Ludhiana | 1,705 | 1,319 | 1,400 | 1,066 | 1,905 | 1,812 | 1,120 | 1,752 | 1,930 | 2,110 | 2,021 | 1,811 | 20,956 | 11 |
| 12 | Ferozepore | 2,500 | 1,816 | 1,765 | 1,833 | 2,120 | 2,176 | 1,813 | 1,977 | 1,925 | 2,537 | 2,590 | 2,152 | 25,823 | 12 |
| Lahore Division. | | | | | | | | | | | | | | | |
| 13 | Mooltan | 2,439 | 1,492 | 1,243 | 1,137 | 1,515 | 1,309 | 1,048 | 996 | 1,070 | 1,535 | 1,988 | 1,860 | 17,732 | 13 |
| 14 | Jhang | 1,951 | 1,322 | 1,211 | 980 | 1,244 | 1,473 | 1,163 | 1,208 | 1,131 | 1,452 | 2,001 | 2,065 | 17,207 | 14 |
| 15 | Montgomery | 1,333 | 882 | 783 | 700 | 906 | 990 | 717 | 701 | 656 | 850 | 1,051 | 1,043 | 10,624 | 15 |
| 16 | Lahore | 2,624 | 1,925 | 1,866 | 1,854 | 2,980 | 3,087 | 2,594 | 2,806 | 3,001 | 3,688 | 3,819 | 3,711 | 33,955 | 16 |
| 17 | Amritsar | 2,352 | 1,811 | 1,931 | 2,086 | 2,880 | 3,157 | 2,627 | 2,952 | 3,223 | 3,771 | 3,600 | 3,201 | 33,608 | 17 |
| 18 | Gurdaspur | 2,052 | 1,601 | 1,655 | 1,899 | 2,616 | 2,302 | 2,158 | 2,675 | 3,479 | 4,076 | 3,430 | 2,856 | 30,793 | 18 |
| Rawalpindi Division. | | | | | | | | | | | | | | | |
| 19 | Sialkot | 2,334 | 1,988 | 1,922 | 2,087 | 3,179 | 2,898 | 2,191 | 3,139 | 4,260 | 4,754 | 4,632 | 3,380 | 36,447 | 19 |
| 20 | Gujrat | 1,633 | 1,128 | 1,144 | 1,233 | 1,570 | 1,651 | 1,518 | 1,829 | 2,375 | 2,581 | 2,299 | 2,094 | 21,055 | 20 |
| 21 | Gujranwala | 1,992 | 1,196 | 1,693 | 1,406 | 2,521 | 2,281 | 1,908 | 2,205 | 2,127 | 2,251 | 3,023 | 2,430 | 25,426 | 21 |
| 22 | Shahpur | 1,582 | 1,097 | 929 | 890 | 1,051 | 1,107 | 1,005 | 996 | 870 | 1,121 | 1,244 | 1,387 | 13,285 | 22 |
| 23 | Jhelum | 2,074 | 1,890 | 1,143 | 1,090 | 1,224 | 1,360 | 1,206 | 1,301 | 1,554 | 2,022 | 1,896 | 1,862 | 18,131 | 23 |
| 24 | Rawalpindi | 3,071 | 1,930 | 1,769 | 1,619 | 1,804 | 1,723 | 1,658 | 1,783 | 2,037 | 2,903 | 2,969 | 2,818 | 26,081 | 24 |
| Peshawar Division. | | | | | | | | | | | | | | | |
| 25 | Hazara | 1,112 | 867 | 877 | 648 | 714 | 762 | 736 | 795 | 822 | 1,026 | 891 | 953 | 10,203 | 25 |
| 26 | Peshawar | 1,561 | 1,465 | 1,240 | 1,171 | 1,414 | 1,370 | 1,251 | 1,274 | 1,091 | 1,185 | 1,288 | 1,561 | 15,874 | 26 |
| 27 | Kohat | 899 | 654 | 441 | 368 | 309 | 287 | 327 | 339 | 330 | 526 | 531 | 685 | 5,696 | 27 |
| Deraajat Division. | | | | | | | | | | | | | | | |
| 28 | Bannu | 2,215 | 1,315 | 979 | 989 | 675 | 863 | 720 | 608 | 750 | 817 | 1,037 | 1,224 | 12,192 | 28 |
| 29 | Dera Ismail Khan | 2,700 | 1,807 | 2,329 | 1,314 | 1,546 | 1,756 | 898 | 734 | 1,124 | 1,389 | 1,874 | 1,880 | 19,351 | 29 |
| 30 | Dera Ghazi Khan | 1,513 | 910 | 808 | 1,855 | 799 | 682 | 558 | 850 | 628 | 893 | 850 | 807 | 11,162 | 30 |
| 31 | Muzaffargarh | 1,565 | 1,037 | 1,162 | 1,138 | 867 | 653 | 600 | 649 | 657 | 958 | 1,295 | 1,127 | 11,708 | 31 |
| Total for the Province | | 58,358 | 41,973 | 48,539 | 44,578 | 53,537 | 55,469 | 45,334 | 49,861 | 55,083 | 64,467 | 64,618 | 61,307 | 688,124 | |
| Ratio of deaths per 1,000 in each month. | | 2.84 | 2.04 | 2.12 | 2.17 | 2.60 | 2.70 | 2.21 | 2.43 | 2.68 | 3.14 | 3.14 | 2.98 | 31.05 | |

ANNUAL FORM No. IV.

DEATHS REGISTERED ACCORDING TO AGE IN THE DISTRICTS OF THE
PUNJAB DURING THE YEAR 1898.

ANNUAL FORM

DEATHS REGISTERED ACCORDING TO AGE IN THE

| 1 | 2 | 3 | | 4 | | 5 | | 6 | | 7 | |
|-----------------------------|-------------------------|-----------------|----------|-----------------------------|----------|-----------------------------|----------|------------------------------|----------|------------------------------|----------|
| No. | DISTRICTS. | UNDER ONE YEAR. | | ONE YEAR AND UNDER 5 YEARS. | | 5 YEARS AND UNDER 10 YEARS. | | 10 YEARS AND UNDER 15 YEARS. | | 15 YEARS AND UNDER 20 YEARS. | |
| | | Males. | Females. | Males. | Females. | Males. | Females. | Males. | Females. | Males. | Females. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Delhi Division. | | | | | | | | | | | |
| 1 | Hissár | 2,261 | 2,659 | 2,366 | 2,411 | 792 | 730 | 352 | 374 | 211 | 210 |
| 2 | Rohtak | 3,004 | 2,609 | 1,696 | 1,657 | 544 | 480 | 258 | 262 | 228 | 218 |
| 3 | Gurgaon | 3,508 | 2,974 | 3,074 | 2,857 | 816 | 778 | 365 | 313 | 294 | 288 |
| 4 | Delhi | 3,272 | 2,994 | 2,162 | 2,110 | 503 | 477 | 315 | 319 | 273 | 273 |
| 5 | Karnál | 4,714 | 4,409 | 4,102 | 3,849 | 878 | 842 | 463 | 391 | 384 | 300 |
| 6 | Umbálla | 3,260 | 3,439 | 2,554 | 2,620 | 578 | 529 | 374 | 308 | 297 | 235 |
| 7 | Simla | 117 | 71 | 31 | 29 | 9 | 9 | 9 | 7 | 11 | 15 |
| Jullundur Division. | | | | | | | | | | | |
| 8 | Kángra | 3,786 | 3,400 | 1,036 | 1,081 | 419 | 460 | 346 | 334 | 306 | 459 |
| 9 | Hoshiárpur | 4,443 | 4,493 | 2,887 | 3,082 | 608 | 610 | 345 | 313 | 261 | 265 |
| 10 | Jullundur | 4,379 | 5,057 | 2,972 | 2,980 | 545 | 533 | 279 | 295 | 307 | 337 |
| 11 | Ludhiána | 3,378 | 3,864 | 2,002 | 2,615 | 461 | 432 | 210 | 202 | 163 | 176 |
| 12 | Ferozepore | 4,255 | 4,408 | 3,874 | 3,860 | 568 | 522 | 336 | 332 | 256 | 279 |
| Lahore Division. | | | | | | | | | | | |
| 13 | Mooltán | 3,183 | 2,860 | 1,219 | 1,227 | 682 | 672 | 58 | 45 | 113 | 100 |
| 14 | Jhang | 2,834 | 2,748 | 1,796 | 1,632 | 504 | 431 | 279 | 230 | 138 | 108 |
| 15 | Montgomery | 1,948 | 1,820 | 1,215 | 1,105 | 244 | 243 | 156 | 167 | 81 | 85 |
| 16 | Láhpore | 5,638 | 5,379 | 4,839 | 4,497 | 842 | 743 | 401 | 385 | 293 | 369 |
| 17 | Amritsar | 5,379 | 6,056 | 4,472 | 4,435 | 707 | 673 | 338 | 327 | 233 | 333 |
| 18 | Gurdáspur | 4,448 | 3,993 | 3,816 | 3,729 | 721 | 770 | 470 | 510 | 373 | 444 |
| Rawalpindi Division. | | | | | | | | | | | |
| 19 | Siálkot | 5,825 | 5,364 | 5,569 | 6,002 | 849 | 837 | 390 | 379 | 249 | 320 |
| 20 | Gujrát | 2,906 | 2,887 | 3,209 | 3,156 | 514 | 520 | 241 | 232 | 151 | 161 |
| 21 | Gujranwála | 4,120 | 4,150 | 3,891 | 3,626 | 732 | 626 | 318 | 299 | 182 | 199 |
| 22 | Sháhpur | 2,192 | 1,960 | 1,446 | 1,471 | 372 | 347 | 153 | 147 | 98 | 108 |
| 23 | Jhelum | 2,348 | 2,287 | 1,844 | 1,866 | 501 | 523 | 256 | 246 | 203 | 191 |
| 24 | Ráwalpindi | 3,290 | 3,097 | 2,100 | 2,222 | 747 | 692 | 466 | 416 | 378 | 340 |
| Peshawar Division. | | | | | | | | | | | |
| 25 | Hazára | 1,615 | 1,274 | 689 | 752 | 262 | 293 | 163 | 154 | 161 | 162 |
| 26 | Pesháwar | 2,174 | 1,519 | 1,074 | 649 | 535 | 439 | 468 | 376 | 411 | 374 |
| 27 | Kohát | 734 | 510 | 487 | 521 | 142 | 188 | 72 | 58 | 101 | 96 |
| Derajat Division. | | | | | | | | | | | |
| 28 | Bannu | 1,941 | 1,525 | 1,087 | 1,044 | 371 | 371 | 172 | 156 | 133 | 119 |
| 29 | Dera Ismáil Khan | 2,478 | 2,137 | 2,309 | 2,263 | 551 | 499 | 222 | 159 | 329 | 274 |
| 30 | Dera Gházi Khan | 1,905 | 1,410 | 1,031 | 895 | 396 | 312 | 168 | 138 | 128 | 103 |
| 31 | Muzaffargarh | 1,741 | 1,629 | 902 | 846 | 257 | 256 | 161 | 141 | 123 | 102 |
| Total for the Province. | | 98,076 | 92,991 | 72,401 | 71,083 | 16,650 | 15,837 | 8,604 | 8,015 | 6,809 | 7,043 |
| Ratio per 1,000 living. | | 215.19 | 210.09 | 63.04 | 68.57 | 10.46 | 11.66 | 6.80 | 8.48 | 7.25 | 9.34 |

No. IV.

DISTRICTS OF THE PUNJAB DURING THE YEAR 1898.

| 8 | | 9 | | 10 | | 11 | | 12 | | 13 | | 14 |
|------------------------------|----------|------------------------------|----------|------------------------------|----------|------------------------------|----------|-----------------------|----------|---------|----------|-----|
| 20 YEARS AND UNDER 30 YEARS. | | 30 YEARS AND UNDER 40 YEARS. | | 40 YEARS AND UNDER 50 YEARS. | | 50 YEARS AND UNDER 60 YEARS. | | 60 YEARS AND UPWARDS. | | TOTAL. | | No. |
| Males. | Females. | Males. | Females. | Males. | Females. | Males. | Females. | Males. | Females. | Males. | Females. | |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| 623 | 673 | 571 | 592 | 644 | 584 | 684 | 506 | 1,738 | 1,570 | 11,242 | 10,250 | 1 |
| 450 | 493 | 461 | 445 | 401 | 441 | 561 | 496 | 1,310 | 1,117 | 9,003 | 8,218 | 2 |
| 828 | 679 | 756 | 751 | 912 | 832 | 845 | 745 | 1,475 | 1,349 | 12,867 | 11,566 | 3 |
| 742 | 787 | 732 | 731 | 759 | 664 | 737 | 648 | 1,325 | 1,303 | 10,820 | 10,306 | 4 |
| 1,073 | 1,012 | 1,097 | 1,125 | 1,189 | 955 | 1,098 | 916 | 1,927 | 1,929 | 16,925 | 15,728 | 5 |
| 856 | 874 | 937 | 879 | 903 | 720 | 898 | 713 | 1,902 | 1,769 | 12,559 | 12,086 | 6 |
| 50 | 47 | 52 | 38 | 53 | 21 | 39 | 23 | 77 | 52 | 448 | 312 | 7 |
| 817 | 1,346 | 842 | 999 | 961 | 789 | 866 | 619 | 2,099 | 1,851 | 11,478 | 11,338 | 8 |
| 743 | 834 | 840 | 831 | 890 | 677 | 902 | 658 | 2,554 | 2,198 | 14,413 | 13,961 | 9 |
| 618 | 567 | 575 | 638 | 680 | 571 | 782 | 595 | 2,332 | 2,213 | 13,469 | 13,516 | 10 |
| 381 | 462 | 403 | 409 | 463 | 419 | 597 | 475 | 1,611 | 1,543 | 10,359 | 10,597 | 11 |
| 447 | 512 | 476 | 471 | 506 | 478 | 658 | 464 | 1,683 | 1,438 | 13,059 | 12,764 | 12 |
| 529 | 527 | 647 | 617 | 674 | 511 | 708 | 452 | 1,609 | 1,399 | 9,422 | 8,310 | 13 |
| 352 | 374 | 462 | 434 | 556 | 371 | 523 | 430 | 1,750 | 1,255 | 9,194 | 8,013 | 14 |
| 194 | 224 | 225 | 240 | 241 | 216 | 304 | 236 | 963 | 717 | 5,571 | 5,053 | 15 |
| 794 | 889 | 817 | 738 | 871 | 607 | 846 | 583 | 2,374 | 2,045 | 17,715 | 16,240 | 16 |
| 741 | 885 | 767 | 688 | 737 | 563 | 826 | 580 | 2,690 | 2,213 | 16,850 | 16,753 | 17 |
| 872 | 1,024 | 924 | 936 | 1,074 | 796 | 1,131 | 754 | 2,120 | 1,879 | 15,958 | 14,835 | 18 |
| 672 | 725 | 746 | 698 | 806 | 626 | 880 | 642 | 2,655 | 2,213 | 18,641 | 17,806 | 19 |
| 484 | 417 | 531 | 473 | 540 | 423 | 561 | 451 | 1,695 | 1,498 | 10,832 | 10,223 | 20 |
| 475 | 465 | 513 | 466 | 572 | 438 | 579 | 447 | 1,863 | 1,481 | 13,235 | 12,191 | 21 |
| 256 | 270 | 330 | 323 | 353 | 279 | 413 | 381 | 1,315 | 1,064 | 6,933 | 6,355 | 22 |
| 501 | 508 | 649 | 592 | 631 | 523 | 645 | 554 | 1,713 | 1,550 | 9,291 | 8,840 | 23 |
| 968 | 998 | 1,254 | 1,209 | 1,129 | 923 | 966 | 758 | 2,210 | 1,921 | 13,508 | 12,576 | 24 |
| 325 | 449 | 465 | 551 | 440 | 443 | 320 | 314 | 760 | 611 | 5,200 | 5,003 | 25 |
| 462 | 406 | 484 | 458 | 598 | 551 | 894 | 725 | 1,835 | 1,442 | 8,935 | 6,939 | 26 |
| 212 | 235 | 343 | 289 | 263 | 263 | 243 | 207 | 391 | 332 | 2,988 | 2,708 | 27 |
| 357 | 343 | 479 | 482 | 534 | 465 | 573 | 384 | 884 | 772 | 6,531 | 5,661 | 28 |
| 733 | 746 | 886 | 839 | 795 | 632 | 956 | 833 | 917 | 793 | 10,176 | 9,175 | 29 |
| 354 | 410 | 445 | 376 | 428 | 331 | 434 | 276 | 900 | 723 | 6,189 | 4,973 | 30 |
| 408 | 457 | 554 | 494 | 521 | 351 | 496 | 384 | 1,044 | 841 | 6,207 | 5,501 | 31 |
| 317 | 18,668 | 19,257 | 18,817 | 20,299 | 16,418 | 20,965 | 16,254 | 49,640 | 42,980 | 330,018 | 308,106 | |
| 9'38 | 10'94 | 13'06 | 14'56 | 19'48 | 17'98 | 29'37 | 26'88 | 87'65 | 92'00 | 29'89 | 32'36 | |

ANNUAL FORM No. V.

DEATHS REGISTERED ACCORDING TO CLASSES IN THE DISTRICTS OF THE PUNJAB DURING THE YEAR 1898.

| 1 | | 2 | | 3 | | | | | 4 | | | | | 5 | | | | | 6 | |
|------------------------|--------------|--|-----------|--------------------|----------------|------------|------------------------------|---------|--------------------|----------------|---------|--|---------|--------------------|----------------|--------|-----|--|---|--|
| | | POPULATION ACCORDING TO CLASSES OF 1891. | | | | | NUMBER OF DEATHS REGISTERED. | | | | | RATIO OF DEATHS PER 1,000 OF POPULATION. | | | | | | | | |
| DISTRICTS. | | Muhammadans. | Hindus. | Native Christians. | Other classes. | Total. | Muhammadans. | Hindus. | Native Christians. | Other classes. | Total. | Muhammadans. | Hindus. | Native Christians. | Other classes. | Total. | No. | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | | | |
| Delhi Divn. | | | | | | | | | | | | | | | | | | | | |
| 1 | Hissar | 199,010 | 76,757 | 43 | 18 | 775,808 | 5,184 | 16,317 | | | 21,501 | 26'05 | 28'29 | | | 27'71 | 1 | | | |
| 2 | Rohtak | 85,515 | 504,905 | 26 | | 590,446 | 2,193 | 13,027 | 1 | | 17,221 | 25'64 | 29'76 | 38'46 | | 29'17 | 2 | | | |
| 3 | Garhwal | 209,951 | 158,815 | 86 | 1 | 668,869 | 7,020 | 16,809 | 3 | 1 | 21,433 | 36'30 | 36'63 | 34'58 | 1,000'00 | 36'53 | 3 | | | |
| 4 | Delhi | 149,184 | 185,189 | 812 | 59 | 635,224 | 1,000 | 16'248 | 49 | 130 | 21,126 | 31'50 | 33'49 | 60'34 | ? | 33'26 | 4 | | | |
| 5 | Karnal | 223,496 | 637,544 | 54 | | 861,094 | 8,223 | 24,418 | 2 | | 32,633 | 36'84 | 38'90 | 37'04 | | 37'92 | 5 | | | |
| 6 | Unhalla | 234,730 | 569,519 | 209 | 1 | 804,840 | 6,906 | 17,740 | 2 | | 24,647 | 29'41 | 31'13 | 6'69 | | 30'62 | 6 | | | |
| 7 | Simla | 5,527 | 29,661 | 50 | 5 | 35,240 | 169 | 586 | 5 | | 760 | 30'58 | 19'75 | 100'00 | | 21'56 | 7 | | | |
| Jullundur Divn. | | | | | | | | | | | | | | | | | | | | |
| 8 | Kangra | 39,621 | 713,922 | 142 | 5,770 | 759,458 | 1,174 | 21,642 | | | 22,816 | 29'63 | 30'31 | | | 30'04 | 8 | | | |
| 9 | Hoshiarpur | 928,668 | 682,870 | 106 | | 1,611,644 | 8,942 | 19,130 | | | 28,072 | 27'21 | 28'15 | 18'87 | | 28'05 | 9 | | | |
| 10 | Jullundur | 405,557 | 482,770 | 20 | | 891,347 | 12,808 | 14,477 | | | 27,285 | 31'35 | 29'09 | | | 30'61 | 10 | | | |
| 11 | Ludhiana | 226,657 | 421,663 | 305 | | 648,677 | 7,236 | 13,717 | 3 | | 20,956 | 31'92 | 32'53 | 9'84 | | 32'31 | 11 | | | |
| 12 | Ferozepore | 3,96,490 | 1,41,988 | 12 | 5 | 861,499 | 12,459 | 13,361 | | | 25,820 | 31'12 | 28'71 | | | 29'97 | 12 | | | |
| Lahore Divn. | | | | | | | | | | | | | | | | | | | | |
| 13 | Mooltan | 500,409 | 129,420 | 30 | | 629,859 | 14,748 | 2,984 | | | 17,732 | 28'47 | 21'78 | | | 28'56 | 13 | | | |
| 14 | Jhang | 344,433 | 92,371 | 17 | | 436,821 | 13,158 | 4,045 | 3 | 1 | 17,207 | 38'20 | 43'79 | 176'47 | ? | 39'39 | 14 | | | |
| 15 | Montgomery | 361,923 | 137,513 | 13 | | 499,449 | 7,966 | 2,658 | | | 10,624 | 22'01 | 19'33 | | | 21'27 | 15 | | | |
| 16 | Lahore | 639,598 | 114,586 | 1,251 | 181 | 1,055,619 | 23,959 | 9,971 | 22 | | 33,955 | 37'16 | 21'06 | 17'34 | | 32'17 | 16 | | | |
| 17 | Amritsar | 452,020 | 538,096 | 959 | 5 | 990,990 | 15,598 | 17,073 | 32 | | 33,603 | 34'51 | 33'41 | 33'37 | | 33'91 | 17 | | | |
| 18 | Gurdaspur | 458,716 | 479,998 | 2,069 | 2 | 940,785 | 14,578 | 16,127 | 63 | 25 | 30,793 | 31'78 | 33'00 | 30'45 | ? | 32'73 | 18 | | | |
| Rawalpindi Divn. | | | | | | | | | | | | | | | | | | | | |
| 19 | Sialkot | 651,155 | 408,075 | 9,482 | | 1,098,712 | 24,297 | 11,877 | 152 | 121 | 36,447 | 35'67 | 29'10 | 16'03 | ? | 33'17 | 19 | | | |
| 20 | Gujrat | 669,347 | 91,412 | 64 | | 760,823 | 18,372 | 2,679 | 2 | 2 | 21,053 | 27'45 | 29'31 | 31'25 | ? | 27'67 | 20 | | | |
| 21 | Gujranwala | 475,494 | 212,321 | 2,246 | | 690,061 | 19,493 | 6,007 | 16 | | 25,496 | 40'81 | 28'29 | 7'12 | | 36'85 | 21 | | | |
| 22 | Shahpur | 417,661 | 75,842 | 27 | 5 | 493,535 | 11,267 | 2,021 | | | 13,288 | 26'98 | 26'65 | | | 26'92 | 22 | | | |
| 23 | Jhelum | 541,192 | 64,502 | 68 | 12 | 605,774 | 16,113 | 2,017 | 1 | | 18,131 | 29'77 | 31'27 | 14'71 | | 29'93 | 23 | | | |
| 24 | Rawalpindi | 751,069 | 91,137 | 41 | 9 | 845,259 | 23,367 | 2,608 | | 109 | 26,084 | 30'99 | 28'62 | | ? | 30'86 | 24 | | | |
| Peshawar Divn. | | | | | | | | | | | | | | | | | | | | |
| 25 | Hazara | 451,771 | 21,330 | 24 | | 476,125 | 9,758 | 444 | | 1 | 10,203 | 21'46 | 20'82 | | ? | 21'43 | 25 | | | |
| 26 | Peshawar | 648,954 | 30,199 | 32 | 7 | 679,183 | 13,396 | 441 | 1 | 36 | 15,874 | 23'72 | 14'61 | 31'25 | ? | 23'37 | 26 | | | |
| 27 | Kohat | 174,281 | 8,204 | 2 | | 182,487 | 5,599 | 97 | | | 5,696 | 32'13 | 11'82 | | | 31'21 | 27 | | | |
| Derajat Divn. | | | | | | | | | | | | | | | | | | | | |
| 28 | Bannu | 336,186 | 33,778 | 8 | | 369,972 | 11,011 | 1,181 | | | 12,192 | 32'75 | 34'96 | | | 32'95 | 28 | | | |
| 29 | D. I. Khan | 418,594 | 63,814 | 48 | 7 | 482,463 | 17,169 | 2,182 | | | 19,351 | 41'02 | 34'19 | | | 40'11 | 29 | | | |
| 30 | D. G. Khan | 347,020 | 52,211 | 29 | | 399,860 | 9,471 | 1,635 | | 56 | 11,162 | 27'25 | 31'32 | | ? | 27'91 | 30 | | | |
| 31 | Muzaffargarh | 327,727 | 53,341 | 4 | | 381,072 | 10,176 | 1,531 | | 1 | 11,708 | 31'05 | 28'70 | | ? | 30'72 | 31 | | | |
| Total for the Province | | 11,511,578 | 9,017,962 | 18,375 | 6,067 | 20,558,982 | 359,026 | 278,256 | 359 | 483 | 638,124 | 31'19 | 30'86 | 19'54 | *79'61 | 31'05 | | | | |

* The high death-rate is due to erroneous classification of population.

ANNUAL FORM No. VI.

DEATHS REGISTERED FROM DIFFERENT CAUSES IN THE DISTRICTS (RURAL
CIRCLES) AND TOWNS OF THE PUNJAB DURING THE YEAR 1898.

ANNUAL FORM

DEATHS REGISTERED FROM DIFFERENT CAUSES IN THE DISTRICTS

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
|-----------------------------|-------------------------|---|----------|------------|---------|--------------------------|----------|----------|-------------------------|
| Number | A.—RURAL CIRCLES | Population according to census of 1891. | Cholera. | Small-pox. | Fever. | Dysentery and diarrhoea. | Inj | | |
| | | | | | | | Suicide. | | Wounding and accidents. |
| | | | | | | | Males. | Females. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Delhi Division. | | | | | | | | | |
| 1 | Hissár | 680,212 | ... | 68 | 14,190 | 358 | 3 | 4 | 131 |
| 2 | Rohtak | 538,785 | ... | 5 | 11,526 | 256 | 4 | 4 | 94 |
| 3 | Gurgaon | 601,448 | ... | 162 | 16,298 | 695 | 12 | 46 | 173 |
| 4 | Delhi | 423,113 | ... | 10 | 8,216 | 429 | 3 | 16 | 110 |
| 5 | Karnāl | 774,720 | ... | 328 | 20,117 | 389 | 7 | 11 | 203 |
| 6 | Umballa | 739,137 | ... | 861 | 14,845 | 501 | 6 | 8 | 145 |
| 7 | Simla | 24,026 | ... | ... | 148 | 61 | ... | 2 | 7 |
| Jullundur Division. | | | | | | | | | |
| 8 | Kāngra | 746,775 | ... | ... | 15,365 | 616 | 8 | 10 | 214 |
| 9 | Hoshiārpur | 940,561 | ... | 187 | 14,365 | 847 | 9 | 17 | 241 |
| 10 | Jullundur | 780,065 | ... | 101 | 10,898 | 449 | 4 | 6 | 181 |
| 11 | Ludhiāna | 565,984 | ... | 151 | 11,286 | 202 | 6 | 6 | 163 |
| 12 | Ferozepore | 810,705 | ... | 313 | 15,026 | 519 | 14 | 8 | 202 |
| Lahore Division | | | | | | | | | |
| 13 | Mooltan | 536,268 | ... | 31 | 11,101 | 202 | 1 | 2 | 138 |
| 14 | Jhang | 401,023 | ... | 25 | 8,708 | 270 | 1 | 1 | 150 |
| 15 | Montgomery | 480,350 | ... | 258 | 5,029 | 166 | 2 | 1 | 132 |
| 16 | Lahore | 846,621 | ... | 306 | 16,498 | 287 | 5 | 11 | 208 |
| 17 | Amritsar | 837,882 | ... | 312 | 15,750 | 722 | 10 | 12 | 196 |
| 18 | Gurdāspur | 876,381 | ... | 151 | 17,876 | 1,477 | 3 | 8 | 156 |
| Rawalpindi Division. | | | | | | | | | |
| 19 | Siālkot | 1,029,484 | ... | 558 | 21,779 | 1,027 | 11 | 3 | 258 |
| 20 | Gujrāt | 721,241 | ... | 18 | 13,402 | 398 | 2 | ... | 181 |
| 21 | Gujránwāla | 628,953 | ... | 8 | 17,472 | 89 | 9 | 2 | 234 |
| 22 | Shahpur | 443,632 | ... | 7 | 7,608 | 295 | 3 | ... | 163 |
| 23 | Jhelum | 581,123 | ... | 44 | 11,877 | 273 | 1 | 2 | 167 |
| 24 | Rawālpindi | 785,870 | ... | 86 | 17,991 | 75 | 2 | 2 | 296 |
| Peshawar Division. | | | | | | | | | |
| 25 | Hazāra | 457,170 | ... | 121 | 6,747 | 15 | ... | 1 | 134 |
| 26 | Peshāwar | 616,119 | ... | 122 | 12,065 | 78 | ... | ... | 250 |
| 27 | Kohāt | 168,145 | ... | 90 | 4,311 | 10 | ... | ... | 77 |
| Derajat Division. | | | | | | | | | |
| 28 | Bannu | 345,124 | ... | 4 | 9,714 | 62 | ... | 2 | 81 |
| 29 | Dera Ismail Khan | 436,068 | ... | 96 | 14,407 | 331 | 1 | 1 | 108 |
| 30 | Dera Ghāzi Khan | 356,398 | ... | 94 | 8,794 | 71 | ... | 4 | 99 |
| 31 | Muzaffargarh | 369,556 | ... | 49 | 9,737 | 175 | 1 | 2 | 107 |
| Total of the Rural Circles | | 18,561,934 | ... | 4,566 | 383,141 | 11,347 | 128 | 192 | 5,001 |

No. VI.

(RURAL CIRCLES) OF THE PUNJAB DURING THE YEAR 1898.

| | | 9 | 10 | 11 | | | | | | | | 12 |
|---------------------------------------|--------|-------------------|-------------------------------|--|------------|--------|--------------------------|-----------|------------------|------------------|------------------------------------|---------|
| RIES. | | All other causes. | Total deaths from all causes. | RATIO OF DEATHS PER 1,000 OF POPULATION. | | | | | | | | Number. |
| Snake-bite and killed by wild beasts. | Total. | | | Cholera. | Small-pox. | Fever. | Dysentery and diarrhoea. | Injuries. | All other cause. | From all causes. | | |
| | | | | | | | | | | For the year. | Mean ratio of previous five years. | |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 31 | 169 | 3,907 | 18,692 | ... | 0 10 | 20 59 | 0 52 | 0 25 | 5 67 | 27 12 | 30 43 | 1 |
| 25 | 127 | 3,909 | 15,883 | ... | 0 01 | 21 39 | 0 47 | 0 21 | 7 37 | 29 48 | 29 69 | 2 |
| 20 | 251 | 4,952 | 22,358 | ... | 0 27 | 27 10 | 1 16 | 0 42 | 8 23 | 27 17 | 32 02 | 3 |
| 30 | 159 | 5,179 | 13,993 | .. | 0 02 | 19 42 | 1 01 | 0 38 | 12 21 | 33 07 | 30 11 | 4 |
| 46 | 267 | 8,463 | 29,504 | ... | 0 42 | 23 97 | 0 50 | 0 34 | 10 92 | 28 16 | 29 76 | 5 |
| 20 | 179 | 6,544 | 22,930 | ... | 1 16 | 20 06 | 0 68 | 0 21 | 8 85 | 31 02 | 48 02 | 6 |
| 1 | 10 | 184 | 406 | ... | ... | 6 16 | 2 66 | 0 42 | 7 66 | 16 90 | 21 72 | 7 |
| 46 | 278 | 6,098 | 22,357 | ... | ... | 20 58 | 0 82 | 0 37 | 8 17 | 29 94 | 31 43 | 8 |
| 41 | 308 | 10,389 | 26,096 | ... | 0 20 | 13 27 | 0 90 | 0 33 | 11 05 | 27 75 | 32 96 | 9 |
| 10 | 201 | 12,190 | 23,839 | ... | 0 13 | 13 97 | 0 58 | 0 26 | 15 63 | 30 56 | 34 79 | 10 |
| 8 | 183 | 6,457 | 18,279 | ... | 0 27 | 19 94 | 0 36 | 0 32 | 11 41 | 32 30 | 34 20 | 11 |
| 27 | 251 | 8,371 | 24,480 | ... | 0 39 | 18 53 | 0 64 | 0 31 | 10 33 | 30 20 | 29 47 | 12 |
| 84 | 275 | 3,647 | 15,256 | ... | 0 06 | 20 70 | 0 38 | 0 51 | 6 80 | 26 45 | 29 19 | 13 |
| 85 | 237 | 6,488 | 15,728 | ... | 0 06 | 21 71 | 0 67 | 0 59 | 16 18 | 39 22 | 28 30 | 14 |
| 72 | 207 | 4,481 | 10,141 | .. | 0 54 | 10 47 | 0 35 | 0 43 | 9 33 | 21 11 | 24 04 | 15 |
| 96 | 320 | 9,327 | 26,738 | ... | 0 36 | 19 49 | 0 34 | 0 38 | 11 02 | 31 58 | 30 68 | 16 |
| 41 | 259 | 10,528 | 27,571 | ... | 0 37 | 18 80 | 0 86 | 0 31 | 12 57 | 32 91 | 34 84 | 17 |
| 28 | 195 | 8,955 | 28,654 | ... | 0 17 | 20 40 | 1 69 | 0 22 | 10 22 | 32 70 | 33 44 | 18 |
| 51 | 323 | 10,255 | 33,942 | ... | 0 54 | 21 16 | 1 00 | 0 31 | 9 96 | 32 97 | 30 44 | 19 |
| 28 | 161 | 5,619 | 19,593 | ... | 0 02 | 18 58 | 0 55 | 0 22 | 7 79 | 27 17 | 23 19 | 20 |
| 154 | 399 | 5,347 | 23,315 | ... | 0 01 | 27 78 | 0 14 | 0 63 | 8 50 | 37 07 | 30 71 | 21 |
| 69 | 235 | 3,750 | 11,890 | ... | 0 02 | 17 14 | 0 66 | 0 53 | 8 45 | 26 80 | 25 51 | 22 |
| 49 | 219 | 4,877 | 17,289 | ... | 0 08 | 20 44 | 0 47 | 0 38 | 8 39 | 29 75 | 27 36 | 23 |
| 63 | 365 | 5,488 | 24,005 | ... | 0 11 | 22 89 | 0 10 | 0 46 | 6 98 | 30 55 | 32 56 | 24 |
| 7 | 142 | 2,655 | 9,680 | ... | 0 26 | 14 76 | 0 03 | 0 31 | 5 31 | 21 17 | 24 14 | 25 |
| ... | 250 | 1,496 | 14,011 | ... | 0 20 | 19 58 | 0 13 | 0 41 | 2 43 | 22 74 | 22 45 | 26 |
| 6 | 83 | 791 | 5,285 | ... | 0 54 | 25 64 | 0 06 | 0 49 | 4 70 | 31 43 | 31 75 | 27 |
| 18 | 101 | 1,319 | 11,200 | ... | 0 01 | 28 15 | 0 18 | 0 29 | 3 82 | 32 45 | 28 89 | 28 |
| 32 | 142 | 2,512 | 17,488 | ... | 0 22 | 33 04 | 0 76 | 0 33 | 5 76 | 40 10 | 31 20 | 29 |
| 29 | 132 | 651 | 9,742 | ... | 0 26 | 24 68 | 0 20 | 0 37 | 1 83 | 27 38 | 25 17 | 30 |
| 60 | 170 | 1,144 | 11,275 | ... | 0 13 | 26 35 | 0 47 | 0 46 | 3 10 | 30 51 | 29 09 | 31 |
| 1,277 | 6,598 | 166,033 | 571,685 | ... | 0 25 | 20 65 | 0 61 | 0 36 | 8 95 | 30 82 | 30 55 | |

ANNUAL FORM

DEATHS REGISTERED FROM DIFFERENT CAUSES IN THE

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
|-----------------------------|-----------------------|---|----------|------------|--------|--------------------------|----------|----------|-------------------------|
| No. | B.—Towns. | Population according to census of 1891. | Cholera. | Small-pox. | Fever. | Dysentery and diarrhoea. | INJURIES | | |
| | | | | | | | Suicide. | | Wounding and accidents. |
| | | | | | | | Males. | Females. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Hissar District. | | | | | | | | | |
| 1 | Hissar | 16,854 | ... | 1 | 309 | 31 | .. | ... | 3 |
| 2 | Hansi | 15,190 | ... | ... | 181 | 24 | .. | ... | 2 |
| 3 | Burwani | 25,457 | ... | 4 | 499 | 80 | .. | ... | 8 |
| 4 | Susa | 16,415 | ... | ... | 319 | 28 | ... | ... | 6 |
| 5 | Fatehabad | 2,848 | ... | ... | 40 | 2 | ... | ... | 1 |
| Rohtak District. | | | | | | | | | |
| 6 | Rohtak | 16,191 | ... | ... | 180 | 31 | ... | ... | ... |
| 7 | Jkatjar | 11,881 | ... | 2 | 137 | 16 | 1 | ... | 4 |
| 8 | Beri | 9,825 | ... | 1 | 142 | 11 | ... | ... | 2 |
| 9 | Gohana | 7,690 | ... | ... | 126 | 8 | ... | ... | ... |
| 10 | Bahadurgarh | 6,103 | ... | 1 | 117 | 4 | ... | ... | 1 |
| Gurgaon District. | | | | | | | | | |
| 11 | Rewari | 27,934 | 2 | ... | 247 | 83 | 1 | ... | 6 |
| 12 | Palwal | 11,227 | ... | 7 | 345 | 24 | ... | 1 | 4 |
| 13 | Farakka nagar | 5,881 | ... | ... | 109 | 39 | ... | ... | 1 |
| 14 | Pfirozpur | 6,848 | ... | 2 | 141 | ... | ... | 1 | 4 |
| 15 | Schna | 5,900 | ... | 4 | 145 | 1 | ... | 1 | 3 |
| 16 | Hodal | 9,601 | ... | 11 | 127 | 31 | ... | ... | 1 |
| Delhi District. | | | | | | | | | |
| 17 | Delhi | 169,648 | ... | 68 | 3,528 | 183 | 1 | ... | 37 |
| 18 | Sonepat | 12,611 | ... | 2 | 219 | 44 | ... | 1 | 4 |
| 19 | Balahrath | 4,474 | ... | ... | 60 | 46 | ... | ... | 2 |
| 20 | Faridabad | 5,929 | ... | 25 | 138 | 32 | ... | ... | 2 |
| Karnal District. | | | | | | | | | |
| 21 | Karnal | 21,530 | ... | ... | 431 | 79 | ... | ... | 8 |
| 22 | Kaithal | 15,768 | ... | 9 | 287 | 43 | ... | ... | 5 |
| 23 | Panipat | 27,547 | ... | 1 | 416 | 55 | 1 | ... | 12 |
| 24 | Ladwa | 4,011 | ... | ... | 75 | 1 | ... | ... | 2 |
| 25 | Shahabad | 11,473 | ... | ... | 156 | 23 | ... | ... | 1 |
| 26 | Thanesar | 6,111 | ... | ... | 98 | 10 | ... | ... | 2 |
| Umballa District. | | | | | | | | | |
| 27 | Umballa | 26,856 | 1 | ... | 294 | 57 | ... | ... | 4 |
| 28 | Jagadhri | 13,029 | ... | ... | 236 | 15 | ... | ... | 5 |
| 29 | Burya | 6,809 | ... | ... | 130 | 11 | ... | ... | 1 |
| 30 | Sadhabura | 10,445 | ... | ... | 158 | 8 | ... | ... | 2 |
| 31 | Rupar | 8,693 | ... | 2 | 102 | 20 | ... | ... | 1 |
| Simla District. | | | | | | | | | |
| 32 | Simla | 13,279 | ... | ... | 196 | 4 | ... | ... | 3 |
| Kangra District. | | | | | | | | | |
| 33 | Kangra | 5,234 | ... | ... | 65 | 28 | ... | ... | 2 |
| 34 | Dharmasala | 2,778 | ... | ... | 38 | 14 | ... | ... | 3 |
| 35 | Nurpur | 4,837 | ... | 3 | 128 | 12 | ... | ... | 3 |
| Hoshiarpur District. | | | | | | | | | |
| 36 | Hoshiarpur | 17,546 | ... | 3 | 246 | 76 | 2 | ... | 13 |
| 37 | Khanpur | 3,553 | ... | ... | 60 | 29 | ... | ... | 1 |
| 38 | Hariana | 7,066 | ... | 6 | 74 | 34 | ... | ... | 2 |
| 39 | Gardhiwala | 4,045 | ... | 12 | 55 | 15 | ... | ... | 1 |
| 40 | Dasuhal | 7,047 | ... | ... | 125 | 12 | ... | ... | 3 |
| 41 | Tandi and Umar | 11,632 | ... | 49 | 224 | 36 | ... | ... | 2 |
| 42 | Miani | 6,849 | ... | ... | 125 | 13 | ... | ... | ... |
| 43 | Makrihan | 3,977 | ... | ... | 76 | 21 | ... | ... | 1 |
| 44 | Una | 4,483 | ... | 1 | 52 | 16 | ... | ... | 2 |
| 45 | Anandpur | 5,100 | ... | ... | 79 | 9 | ... | 1 | ... |
| Jullundur District. | | | | | | | | | |
| 46 | Jullundur | 50,375 | ... | 2 | 773 | 124 | ... | ... | 9 |
| 47 | Alawalpur | 4,380 | ... | ... | 56 | 1 | ... | ... | 1 |
| 48 | Kartarpur | 10,441 | ... | ... | 161 | 37 | ... | 1 | 3 |
| 49 | Bungah | 5,010 | ... | 1 | 29 | 15 | 1 | ... | 2 |
| 50 | Bahon | 10,667 | ... | 1 | 111 | 35 | 1 | ... | 4 |
| 51 | Nawashahr | 5,601 | ... | 1 | 28 | 24 | ... | ... | 8 |
| 52 | Phillour | 6,697 | ... | ... | 109 | 10 | ... | ... | ... |
| 53 | Nurmahal | 8,520 | ... | 4 | 103 | 13 | ... | ... | 2 |
| 54 | Nakodar | 9,740 | ... | 4 | 104 | 12 | ... | ... | 4 |

No. VI.

TOWNS OF THE PUNJAB DURING THE YEAR 1898

| RATIO OF DEATHS PER 1,000 OF POPULATION | | | | | | | | | | | | | | | | | | | | | | |
|---|----|------------------|-------|------------------------------|------|---------|-------|-----------|-------|--------|-------|-------------------------|----|-----------|----|------------------|----|-----------------|----|-------------------|----|----|
| Snake-bite and killed by wild beasts. | | All other causes | | Total deaths from all causes | | Cholera | | Small pox | | Typhus | | Dysentery and diarrhoea | | Influenza | | All other causes | | For male causes | | For female causes | | No |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | |
| ... | 3 | 276 | 620 | ... | 0.06 | 18.33 | 1.81 | 0.18 | 16.28 | 16.79 | 46.21 | 1 | | | | | | | | | | |
| ... | 2 | 217 | 424 | ... | ... | 11.02 | 1.58 | 0.13 | 14.29 | 27.91 | 30.41 | 2 | | | | | | | | | | |
| ... | 6 | 337 | 1128 | ... | 0.11 | 14.06 | 2.25 | 0.23 | 15.12 | 31.79 | 41.56 | 3 | | | | | | | | | | |
| ... | 1 | 220 | 574 | ... | ... | 19.43 | 1.71 | 0.43 | 13.40 | 34.97 | 35.39 | 4 | | | | | | | | | | |
| ... | 1 | 20 | 63 | ... | ... | 14.04 | 0.70 | 0.35 | 7.02 | 22.12 | 37.99 | 5 | | | | | | | | | | |
| ... | 3 | 210 | 424 | ... | ... | 11.12 | 1.91 | 0.19 | 12.97 | 26.19 | 37.19 | 6 | | | | | | | | | | |
| ... | 6 | 141 | 302 | ... | 0.17 | 11.53 | 1.35 | 0.51 | 11.87 | 25.42 | 30.87 | 7 | | | | | | | | | | |
| ... | 2 | 113 | 269 | ... | 0.10 | 14.45 | 1.12 | 0.20 | 11.50 | 27.38 | 32.59 | 8 | | | | | | | | | | |
| ... | 1 | 59 | 193 | ... | ... | 16.88 | 1.04 | ... | 7.67 | 25.10 | 32.93 | 9 | | | | | | | | | | |
| ... | 1 | 27 | 150 | ... | 0.16 | 19.17 | 0.66 | 0.16 | 4.42 | 24.58 | 31.98 | 10 | | | | | | | | | | |
| ... | 7 | 281 | 620 | 0.07 | ... | 8.84 | 2.97 | 0.25 | 10.06 | 22.26 | 31.80 | 11 | | | | | | | | | | |
| ... | 5 | 122 | 593 | ... | 0.62 | 30.73 | 2.14 | 0.45 | 10.87 | 44.80 | 11.49 | 12 | | | | | | | | | | |
| ... | 1 | 63 | 212 | ... | ... | 18.53 | 6.63 | 0.17 | 10.71 | 36.05 | 33.46 | 13 | | | | | | | | | | |
| ... | 5 | 52 | 233 | ... | 0.29 | 20.59 | 4.82 | 0.73 | 7.59 | 24.02 | 36.77 | 14 | | | | | | | | | | |
| ... | 1 | 65 | 228 | ... | 0.67 | 24.21 | 1.67 | 0.37 | 10.55 | 33.06 | 35.29 | 15 | | | | | | | | | | |
| ... | 1 | 106 | 279 | ... | 1.15 | 13.23 | 3.54 | 0.10 | 11.14 | 29.06 | 24.73 | 16 | | | | | | | | | | |
| ... | 8 | 46 | 2,563 | 6,388 | 0.36 | 18.60 | 0.06 | 0.24 | 13.51 | 33.65 | 38.36 | 17 | | | | | | | | | | |
| ... | 7 | 99 | 371 | ... | 0.16 | 17.37 | 3.49 | 0.56 | 7.85 | 29.42 | 37.79 | 18 | | | | | | | | | | |
| ... | 2 | 37 | 145 | ... | ... | 13.41 | 10.23 | 0.45 | 8.27 | 32.41 | 34.60 | 19 | | | | | | | | | | |
| ... | 2 | 32 | 229 | ... | 4.22 | 23.28 | 5.10 | 0.34 | 5.40 | 35.62 | 32.05 | 20 | | | | | | | | | | |
| ... | 8 | 393 | 911 | ... | ... | 20.02 | 3.67 | 0.37 | 18.25 | 42.31 | 41.92 | 21 | | | | | | | | | | |
| ... | 6 | 296 | 641 | ... | 0.57 | 18.20 | 2.73 | 0.38 | 18.77 | 40.65 | 46.81 | 22 | | | | | | | | | | |
| ... | 14 | 532 | 1,018 | ... | 0.04 | 15.10 | 2.00 | 0.51 | 19.31 | 36.96 | 39.21 | 23 | | | | | | | | | | |
| ... | 2 | 42 | 120 | ... | ... | 18.70 | 0.25 | 0.50 | 10.47 | 29.92 | 40.02 | 24 | | | | | | | | | | |
| ... | 1 | 79 | 259 | ... | ... | 13.60 | 2.00 | 0.09 | 6.89 | 22.57 | 29.11 | 25 | | | | | | | | | | |
| ... | 2 | 30 | 140 | ... | ... | 16.04 | 1.64 | 0.33 | 4.91 | 22.91 | 32.86 | 26 | | | | | | | | | | |
| ... | 4 | 373 | 729 | 0.04 | ... | 10.95 | 2.12 | 0.15 | 13.89 | 27.14 | 35.78 | 27 | | | | | | | | | | |
| ... | 5 | 114 | 370 | ... | ... | 18.11 | 1.15 | 0.38 | 8.75 | 25.40 | 42.14 | 28 | | | | | | | | | | |
| ... | 1 | 40 | 182 | ... | ... | 19.09 | 1.62 | 0.15 | 5.87 | 26.73 | 32.66 | 29 | | | | | | | | | | |
| ... | 2 | 82 | 250 | ... | ... | 15.13 | 0.77 | 0.19 | 7.85 | 23.93 | 23.46 | 30 | | | | | | | | | | |
| ... | 1 | 59 | 184 | ... | 0.23 | 11.73 | 2.30 | 0.12 | 6.79 | 21.17 | 30.07 | 31 | | | | | | | | | | |
| ... | 3 | 151 | 354 | ... | ... | 14.76 | 0.30 | 0.23 | 11.37 | 26.66 | 25.03 | 32 | | | | | | | | | | |
| ... | 2 | 74 | 169 | ... | ... | 12.42 | 5.35 | 0.38 | 11.14 | 32.29 | 36.53 | 33 | | | | | | | | | | |
| ... | 4 | 47 | 103 | ... | ... | 13.68 | 5.04 | 1.41 | 16.92 | 37.08 | 37.51 | 34 | | | | | | | | | | |
| ... | 3 | 41 | 187 | ... | 0.62 | 26.46 | 2.19 | 0.62 | 8.48 | 38.66 | 36.84 | 35 | | | | | | | | | | |
| ... | 15 | 269 | 609 | ... | 0.17 | 14.02 | 4.33 | 0.85 | 15.33 | 31.71 | 10.59 | 36 | | | | | | | | | | |
| ... | 1 | 53 | 143 | ... | ... | 16.89 | 8.16 | 0.28 | 14.92 | 40.25 | 43.98 | 37 | | | | | | | | | | |
| ... | 3 | 59 | 176 | ... | 0.85 | 10.47 | 4.81 | 0.42 | 8.35 | 24.91 | 37.79 | 38 | | | | | | | | | | |
| ... | 1 | 46 | 129 | ... | 2.97 | 13.60 | 3.71 | 0.25 | 11.37 | 31.89 | 27.94 | 39 | | | | | | | | | | |
| ... | 3 | 72 | 216 | ... | 0.37 | 17.74 | 1.70 | 0.43 | 10.22 | 30.65 | 36.47 | 40 | | | | | | | | | | |
| ... | 3 | 85 | 397 | ... | 4.21 | 19.26 | 3.09 | 0.26 | 7.31 | 31.13 | 31.19 | 41 | | | | | | | | | | |
| ... | 1 | 28 | 166 | ... | ... | 18.80 | 1.96 | ... | 4.21 | 24.97 | 24.24 | 42 | | | | | | | | | | |
| ... | 2 | 60 | 159 | ... | ... | 19.11 | 5.28 | 0.50 | 15.09 | 39.98 | 46.67 | 43 | | | | | | | | | | |
| ... | 2 | 70 | 141 | ... | 0.22 | 11.60 | 3.57 | 0.45 | 15.61 | 31.45 | 32.75 | 44 | | | | | | | | | | |
| ... | 1 | 53 | 142 | ... | ... | 15.49 | 1.76 | 0.20 | 10.30 | 27.84 | 38.67 | 45 | | | | | | | | | | |
| ... | 10 | 700 | 1,609 | ... | 0.04 | 15.34 | 2.46 | 0.20 | 13.90 | 31.94 | 34.04 | 46 | | | | | | | | | | |
| ... | 1 | 25 | 83 | ... | ... | 12.79 | 0.23 | 0.23 | 5.71 | 18.95 | 44.16 | 47 | | | | | | | | | | |
| ... | 5 | 90 | 293 | ... | ... | 15.42 | 3.54 | 0.48 | 8.62 | 28.06 | 44.08 | 48 | | | | | | | | | | |
| ... | 3 | 185 | 233 | ... | 0.20 | 5.79 | 2.99 | 0.60 | 36.93 | 46.51 | 32.69 | 49 | | | | | | | | | | |
| ... | 6 | 172 | 325 | ... | 0.09 | 10.41 | 3.28 | 0.56 | 16.12 | 30.47 | 34.14 | 50 | | | | | | | | | | |
| ... | 8 | 119 | 180 | ... | 0.18 | 5.00 | 4.28 | 1.43 | 21.25 | 32.14 | 31.92 | 51 | | | | | | | | | | |
| ... | 2 | 94 | 213 | ... | ... | 16.28 | 1.49 | ... | 14.04 | 31.81 | 33.51 | 52 | | | | | | | | | | |
| ... | 2 | 165 | 287 | ... | 0.47 | 12.09 | 1.53 | 0.23 | 19.37 | 33.69 | 35.14 | 53 | | | | | | | | | | |
| ... | 5 | 98 | 223 | ... | 0.41 | 10.68 | 1.23 | 0.51 | 10.06 | 22.90 | 27.29 | 54 | | | | | | | | | | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
|-----------------------------|--------------------------|---|---------|-----------|--------|--------------------------|-----------|----------|-------------------------|
| No. | B.--Towns | Population according to Census of 1901. | Cholera | Small-pox | Fever. | Dysentery and diarrhoea. | INJURIES. | | |
| | | | | | | | Suicide. | | Wounding and accidents. |
| | | | | | | | Males. | Females. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Ludhiana District. | | | | | | | | | |
| 55 | Ludhiana | 16,021 | .. | .. | 648 | 145 | .. | .. | 8 |
| 56 | Jagraon | 18,116 | .. | .. | 218 | 30 | .. | .. | 11 |
| 57 | Raikot | 9,381 | .. | .. | 142 | 17 | .. | .. | 4 |
| 58 | Khemka | 3,877 | .. | .. | 60 | 7 | .. | .. | 1 |
| 59 | Mehowara | 5,340 | .. | .. | 97 | 16 | .. | .. | 1 |
| Ferozepore District. | | | | | | | | | |
| 60 | Ferozepore | 25,337 | .. | .. | 387 | 81 | 1 | .. | 4 |
| 61 | Zira | 4,356 | .. | 7 | 49 | 4 | .. | .. | 1 |
| 62 | Mukla | 1,319 | .. | .. | 16 | 4 | .. | .. | .. |
| 63 | Dharmkot | 6,725 | .. | 5 | 91 | 21 | .. | .. | .. |
| 64 | Muktsar | 5,271 | .. | 3 | 79 | 1 | .. | .. | 1 |
| 65 | Fazilka | 7,563 | .. | 1 | 93 | 10 | .. | .. | .. |
| Mooltan District. | | | | | | | | | |
| 66 | Mooltan | 81,235 | .. | 1 | 861 | 193 | 1 | .. | 17 |
| 67 | Kahror | 5,398 | .. | .. | 81 | 2 | .. | .. | .. |
| 68 | Shriabad | 6,329 | .. | .. | 65 | 31 | .. | .. | .. |
| 69 | Jalilpur | 3,881 | .. | .. | 100 | 3 | .. | .. | .. |
| 70 | Talamba | 2,792 | .. | .. | 3 | 1 | .. | .. | 1 |
| 71 | Dunipur | 2,101 | .. | 1 | 49 | .. | .. | .. | .. |
| Jhang District. | | | | | | | | | |
| 72 | Jhang | 8,476 | .. | .. | 124 | 10 | .. | .. | 1 |
| 73 | Mazhiana | 13,866 | .. | 2 | 141 | 39 | .. | .. | 6 |
| 74 | Chinfot | 13,476 | .. | .. | 159 | 10 | .. | .. | 7 |
| Montgomery District. | | | | | | | | | |
| 75 | Montgomery | 5,159 | .. | 2 | 31 | 8 | .. | .. | 4 |
| 76 | Kamalia | 7,490 | .. | .. | 95 | 12 | .. | .. | 1 |
| 77 | Pakpattan | 6,522 | .. | 13 | 92 | 11 | .. | .. | .. |
| Lahore District. | | | | | | | | | |
| 78 | Lahore | 159,597 | .. | 5 | 3,072 | 311 | .. | 1 | 58 |
| 79 | Sharapur | 4,921 | .. | .. | 91 | 11 | .. | .. | 2 |
| 80 | Chandian | 10,339 | .. | .. | 202 | 20 | .. | .. | 1 |
| 81 | Khandian | 2,921 | .. | .. | 45 | 2 | .. | .. | 1 |
| 82 | Kasur | 20,290 | .. | 8 | 319 | 20 | 1 | .. | 13 |
| 83 | Khemkarn | 5,035 | .. | 1 | 98 | 12 | .. | .. | .. |
| 84 | Patti | 7,495 | .. | 4 | 154 | 3 | .. | .. | 2 |
| Amritsar District. | | | | | | | | | |
| 85 | Amritsar | 135,401 | .. | 1 | 2,915 | 220 | 2 | 1 | 49 |
| 86 | Majitha | 6,417 | .. | 17 | 82 | 13 | 1 | .. | .. |
| 87 | Jandiála | 7,732 | .. | 1 | 202 | .. | .. | .. | 1 |
| 88 | Taru Taran | 3,900 | .. | 1 | 45 | 13 | .. | .. | 1 |
| Gurdaspur District. | | | | | | | | | |
| 89 | Gurdaspur | 5,189 | .. | 2 | 83 | 11 | .. | .. | 2 |
| 90 | Dinanagar | 5,454 | .. | 2 | 156 | 2 | .. | .. | .. |
| 91 | Kalanaur | 5,286 | .. | 1 | 80 | 16 | .. | .. | 1 |
| 92 | Pathankot | 4,749 | .. | 1 | 131 | 17 | .. | .. | .. |
| 93 | Sujanpur | 5,796 | .. | 1 | 92 | 21 | .. | .. | 3 |
| 94 | Balhouse | 807 | .. | .. | 19 | 4 | .. | .. | .. |
| 95 | Batala | 27,223 | .. | 30 | 402 | 40 | .. | .. | 15 |
| 96 | Srigobindpur | 4,859 | .. | .. | 122 | 13 | .. | 1 | 2 |
| 97 | Dera Nank | 5,750 | .. | .. | 120 | 6 | .. | .. | 1 |
| Sialkot District. | | | | | | | | | |
| 98 | Sialkot | 33,965 | .. | 21 | 671 | 99 | .. | .. | 15 |
| 99 | Daska | 6,493 | .. | 1 | 111 | 18 | .. | .. | 4 |
| 100 | Jamki | 4,629 | .. | 1 | 55 | 12 | .. | .. | 5 |
| 101 | Kila Sobha Singh | 4,520 | .. | 2 | 69 | 3 | .. | .. | 4 |
| 102 | Pasrur | 9,200 | .. | 20 | 115 | 17 | .. | 1 | .. |
| 103 | Zafarwal | 5,536 | .. | 9 | 79 | 9 | .. | .. | .. |
| 104 | Narowal | 4,898 | .. | 3 | 86 | 5 | .. | .. | .. |

| | | 9 | 10 | 11 | | | | | | 12 | | |
|---------------------------------------|--------|-------------------|-------------------------------|---|------------|--------|--------------------------|-----------|-------------------|------------------|------------------------------|-----|
| | | All other causes. | Total deaths from all causes. | Ratio of deaths per 1000 of population. | | | | | | From all causes. | | No. |
| Snake-bite and killed by wild beasts. | Total. | | | Cholera. | Small-pox. | Fever. | Dysentery and diarrhoea. | Injuries. | All other causes. | For the year. | Mean of previous five years. | |
| | | | | | | | | | | | | |
| 1 | 9 | 750 | 1,552 | ... | ... | 14.08 | 3.15 | 0.20 | 16.30 | 33.72 | 37.68 | 55 |
| ... | 11 | 272 | 531 | ... | ... | 12.03 | 1.66 | 0.61 | 15.01 | 29.81 | 33.05 | 56 |
| ... | 4 | 128 | 291 | ... | ... | 15.14 | 1.81 | 0.43 | 13.64 | 31.02 | 36.20 | 57 |
| ... | 1 | 57 | 125 | ... | ... | 15.48 | 1.81 | 0.26 | 14.70 | 32.24 | 32.50 | 58 |
| ... | 1 | 64 | 178 | ... | ... | 18.16 | 3.00 | 0.19 | 11.99 | 33.33 | 33.33 | 59 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| ... | 5 | 240 | 713 | ... | ... | 15.27 | 3.20 | 0.20 | 9.47 | 28.14 | 31.95 | 60 |
| ... | 2 | 60 | 122 | ... | 1.61 | 11.25 | 0.92 | 0.16 | 13.77 | 28.01 | 31.04 | 61 |
| ... | ... | 17 | 37 | ... | ... | 9.88 | 2.47 | ... | 10.50 | 22.85 | 33.48 | 62 |
| ... | ... | 82 | 199 | ... | 0.74 | 13.53 | 3.12 | ... | 12.19 | 29.59 | 30.28 | 63 |
| ... | 1 | 25 | 109 | ... | 0.57 | 14.09 | 0.19 | 0.19 | 4.74 | 20.68 | 22.50 | 64 |
| ... | ... | 59 | 163 | ... | 0.13 | 12.30 | 1.32 | ... | 7.80 | 21.55 | 23.27 | 65 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| ... | 18 | 516 | 1,592 | ... | 0.02 | 13.44 | 3.00 | 0.28 | 12.70 | 29.44 | 32.34 | 66 |
| ... | ... | 23 | 109 | ... | ... | 15.28 | 0.36 | ... | 4.18 | 19.63 | 25.50 | 67 |
| ... | 2 | 98 | 156 | ... | ... | 10.27 | 4.90 | 0.32 | 15.48 | 30.97 | 39.82 | 68 |
| ... | ... | 56 | 159 | ... | ... | 25.75 | 0.77 | ... | 14.42 | 40.94 | 43.41 | 69 |
| ... | 1 | 43 | 48 | ... | ... | 1.07 | 0.36 | 0.36 | 15.40 | 17.19 | 37.82 | 70 |
| ... | ... | 22 | 72 | ... | 0.48 | 23.32 | ... | ... | 10.47 | 34.27 | 37.13 | 71 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| ... | 2 | 188 | 324 | ... | ... | 14.63 | 1.18 | 0.24 | 22.18 | 38.23 | 31.74 | 72 |
| ... | 7 | 398 | 587 | ... | 0.14 | 10.17 | 2.81 | 0.50 | 28.70 | 42.33 | 32.90 | 73 |
| ... | 9 | 390 | 598 | ... | ... | 11.80 | 0.74 | 0.67 | 28.94 | 42.15 | 32.28 | 74 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| ... | 4 | 44 | 80 | ... | 0.39 | 0.01 | 1.55 | 0.78 | 8.53 | 17.25 | 21.01 | 75 |
| ... | 3 | 77 | 187 | ... | ... | 12.08 | 1.60 | 0.40 | 10.28 | 24.97 | 33.06 | 76 |
| ... | ... | 91 | 207 | ... | 1.99 | 14.11 | 1.60 | ... | 13.95 | 31.74 | 29.41 | 77 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| ... | 61 | 2,005 | 5,454 | ... | 0.03 | 19.25 | 1.95 | 0.38 | 12.56 | 34.17 | 32.07 | 78 |
| ... | 2 | 38 | 142 | ... | ... | 18.48 | 2.23 | 0.41 | 7.72 | 28.84 | 30.63 | 79 |
| ... | 2 | 247 | 471 | ... | ... | 19.54 | 1.93 | 0.19 | 23.89 | 45.56 | 37.24 | 80 |
| ... | 1 | 47 | 95 | ... | ... | 15.41 | 0.68 | 0.34 | 16.09 | 32.52 | 38.62 | 81 |
| ... | 14 | 266 | 627 | ... | 0.39 | 15.72 | 0.99 | 0.69 | 13.11 | 30.90 | 43.73 | 82 |
| ... | ... | 75 | 186 | ... | 0.17 | 16.51 | 2.02 | ... | 12.64 | 31.34 | 36.09 | 83 |
| ... | 3 | 78 | 242 | ... | 0.53 | 20.55 | 0.40 | 0.40 | 10.41 | 32.29 | 33.65 | 84 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| ... | 6 | 2,274 | 5,468 | ... | 0.01 | 21.53 | 1.62 | 0.43 | 16.79 | 40.38 | 45.23 | 85 |
| ... | 1 | 75 | 188 | ... | 2.65 | 12.78 | 2.03 | 0.16 | 11.69 | 29.30 | 48.25 | 86 |
| ... | 1 | 51 | 255 | ... | 0.13 | 26.13 | ... | 0.13 | 6.60 | 32.98 | 30.55 | 87 |
| ... | 1 | 61 | 121 | ... | 0.26 | 11.54 | 3.33 | 0.20 | 15.64 | 31.03 | 34.36 | 88 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| ... | 2 | 75 | 173 | ... | 0.39 | 16.00 | 2.12 | 0.39 | 14.45 | 33.34 | 35.85 | 89 |
| ... | ... | 60 | 220 | ... | 0.37 | 28.60 | 0.37 | ... | 11.00 | 40.34 | 42.28 | 90 |
| ... | 1 | 69 | 170 | ... | 0.76 | 15.13 | 3.03 | 0.19 | 13.05 | 32.16 | 39.73 | 91 |
| ... | 1 | 74 | 224 | ... | 0.21 | 27.58 | 3.58 | 0.21 | 15.58 | 47.17 | 34.41 | 92 |
| ... | 3 | 53 | 170 | ... | 0.17 | 15.87 | 3.62 | 0.52 | 9.14 | 29.33 | 32.06 | 93 |
| ... | ... | 19 | 42 | ... | ... | 23.54 | 4.96 | ... | 23.54 | 52.04 | 26.27 | 94 |
| ... | 15 | 269 | 816 | ... | 1.10 | 16.97 | 1.47 | 0.55 | 9.88 | 29.97 | 39.89 | 95 |
| ... | 2 | 17 | 154 | ... | ... | 27.99 | 2.98 | 0.46 | 3.90 | 35.33 | 29.73 | 96 |
| ... | 1 | 43 | 170 | ... | ... | 20.87 | 1.04 | 0.17 | 7.48 | 29.57 | 33.60 | 97 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| ... | 15 | 693 | 1,499 | ... | 0.62 | 19.76 | 2.91 | 0.44 | 20.40 | 44.13 | 37.37 | 98 |
| ... | 4 | 76 | 210 | ... | 0.15 | 17.10 | 2.77 | 0.62 | 11.70 | 32.34 | 24.21 | 99 |
| ... | 5 | 67 | 140 | ... | 0.22 | 11.88 | 2.59 | 1.08 | 14.47 | 30.24 | 29.98 | 100 |
| ... | 4 | 32 | 110 | ... | 0.44 | 15.27 | 0.66 | 0.88 | 7.08 | 24.34 | 39.60 | 101 |
| ... | 1 | 104 | 257 | ... | 2.17 | 12.50 | 1.85 | 0.11 | 11.30 | 27.93 | 33.76 | 102 |
| ... | ... | 46 | 143 | ... | 1.63 | 14.27 | 1.63 | ... | 8.31 | 25.83 | 33.31 | 103 |
| ... | ... | 52 | 146 | ... | 0.61 | 17.56 | 1.02 | ... | 10.62 | 29.81 | 34.18 | 104 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
|----------------------------|-------------------|---|----------|------------|---------|--------------------------|-----------|----------|-------------------------|
| No. | B—Towns | Population according to Census of 1891. | Cholera. | Small-pox. | Fever. | Dysentery and diarrhoea. | INJURIES. | | |
| | | | | | | | Suicide. | | Wounding and accidents. |
| | | | | | | | Males. | Females. | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Gujrat District | | | | | | | | | |
| 105 | Gujrat | 17,671 | ... | ... | 325 | 27 | 1 | .. | 5 |
| 106 | Jalpur | 11,065 | .. | .. | 175 | 61 | .. | .. | 6 |
| 107 | Kanpur | 5,474 | .. | .. | 84 | 18 | .. | .. | 2 |
| 108 | Punjab | 5,421 | .. | .. | 85 | 5 | .. | .. | 2 |
| Gujranwala District | | | | | | | | | |
| 109 | Gujranwala | 25,802 | .. | ... | 352 | 15 | .. | .. | 5 |
| 110 | Wazirabad | 15,786 | ... | 1 | 402 | 73 | ... | .. | 9 |
| 111 | Enamulad | 7,841 | .. | .. | 110 | ... | 1 | .. | 3 |
| 112 | Khan Dildar Singh | 2,843 | .. | .. | 61 | ... | .. | .. | 1 |
| 113 | Asghar | 4,262 | .. | .. | 66 | 2 | .. | .. | ... |
| 114 | Rahimnagar | 6,502 | .. | .. | 119 | 10 | .. | .. | 1 |
| Shahpur District | | | | | | | | | |
| 115 | Bhara | 17,428 | .. | 1 | 221 | 61 | .. | .. | 7 |
| 116 | Shahpur | 6,337 | .. | .. | 107 | 9 | .. | .. | 1 |
| 117 | Sahib | 9,210 | .. | 1 | 151 | 17 | .. | .. | 1 |
| 118 | Mandi | 7,119 | .. | .. | 102 | 33 | .. | .. | 1 |
| 119 | Kasulda | 9,832 | .. | .. | 91 | 37 | .. | .. | 2 |
| Jhelum District | | | | | | | | | |
| 120 | Jhelum | 9,711 | .. | .. | 219 | 11 | .. | .. | 7 |
| 121 | Pind Dadan Khan | 15,055 | .. | .. | 301 | 125 | .. | .. | 4 |
| Rawalpindi District | | | | | | | | | |
| 122 | Rawalpindi | 38,331 | .. | ... | 914 | 71 | .. | .. | 14 |
| 123 | Mirpur | 1,459 | .. | ... | 25 | 2 | .. | .. | ... |
| 124 | Pindigheb | 8,402 | .. | .. | 154 | 6 | .. | .. | 2 |
| 125 | Hazro | 9,261 | .. | .. | 138 | 6 | .. | .. | 1 |
| 126 | Attock | 2,654 | .. | .. | 64 | 7 | .. | .. | 2 |
| Hazara District | | | | | | | | | |
| 127 | Abbottabad | 2,342 | .. | ... | 16 | 1 | .. | .. | ... |
| 128 | Naushahr | 3,885 | .. | ... | 54 | 2 | .. | .. | 1 |
| 129 | Batha | 7,437 | .. | ... | 206 | 4 | .. | .. | 7 |
| 130 | Haripur | 5,119 | .. | ... | 64 | 9 | .. | .. | ... |
| Peshawar District. | | | | | | | | | |
| 131 | Peshawar | 63,079 | .. | 3 | 1,307 | 81 | .. | .. | 24 |
| Kohat District | | | | | | | | | |
| 132 | Kohat | 11,347 | .. | 6 | 225 | 25 | .. | .. | 2 |
| Bannu District | | | | | | | | | |
| 133 | Edwardesabad | 6,095 | .. | ... | 176 | 33 | .. | .. | 18 |
| 134 | Isa Khel | 7,600 | .. | ... | 140 | 12 | 1 | .. | 3 |
| 135 | Kakabagh | 6,702 | .. | ... | 186 | 45 | .. | .. | 4 |
| 136 | Lakki | 1,488 | .. | ... | 141 | 19 | .. | .. | 3 |
| Dera Ismail Khan District. | | | | | | | | | |
| 137 | Dera Ismail Khan | 21,573 | .. | 2 | 662 | 168 | 2 | .. | 13 |
| 138 | Kulachi | 9,447 | .. | 5 | 100 | 8 | .. | .. | 2 |
| 139 | Blakkar | 5,210 | .. | ... | 167 | 7 | .. | .. | 1 |
| 140 | Leiah | 7,437 | .. | 2 | 139 | 5 | .. | .. | ... |
| 141 | Kawar | 2,833 | .. | 2 | 88 | 6 | .. | .. | 3 |
| Dera Ghazi Khan District. | | | | | | | | | |
| 142 | Dera Ghazi Khan | 23,899 | .. | 6 | 426 | 70 | .. | 1 | 10 |
| 143 | Jampur | 5,815 | .. | 1 | 97 | 9 | .. | 1 | 5 |
| 144 | Dajal | 6,085 | .. | ... | 215 | 20 | .. | .. | 1 |
| 145 | Rajanpur | 4,064 | .. | ... | 86 | 2 | .. | .. | 1 |
| 146 | Kot Mirhan | 3,624 | .. | ... | 84 | ... | .. | .. | ... |
| Muzaffargarh District. | | | | | | | | | |
| 147 | Muzaffargarh | 3,058 | .. | ... | 66 | 10 | .. | .. | ... |
| 148 | Khairgarh | 3,505 | .. | 1 | 80 | 11 | .. | .. | 1 |
| 149 | Alipur | 2,552 | .. | ... | 65 | 4 | .. | .. | ... |
| 150 | Khairpur | 2,424 | .. | ... | 71 | 1 | .. | .. | 1 |
| Total | | 2,010,390 | 3 | 432 | 35,065 | 4,400 | 20 | 11 | 627 |
| Total for the Province | | 20,553,982 | 3 | 4,998 | 418,206 | 15,747 | 148 | 203 | 5,628 |

NOTE.—The population of Europeans and Eurasians not being available separately for towns, it could not be excluded from the

No. VI—concluded.

| | | 9 | 10 | 11 | | | | | | 12 | | |
|---------------------------------------|--------|--|-------------------------------|----------|------------|--------|--------------------------|-----------|-------------------|------------------|------------------------------|-----|
| | | RATIO OF DEATHS PER 1,000 OF POPULATION. | | | | | | | | | | |
| Snake-bite and killed by wild beasts. | Total. | All other causes. | Total deaths from all causes. | Cholera. | Small-pox. | Fever. | Dysentery and diarrhoea. | Injuries. | All other causes. | From all causes. | | No. |
| | | | | | | | | | | For the year. | Mean of previous five years. | |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| ... | 6 | 285 | 640 | .. | .. | 15.79 | 1.53 | 0.31 | 10.80 | 30.56 | 31.00 | 105 |
| ... | 6 | 226 | 168 | .. | .. | 15.82 | 5.51 | 0.51 | 20.42 | 12.80 | 33.00 | 106 |
| ... | 2 | 67 | 171 | .. | .. | 15.85 | 3.20 | 0.37 | 12.21 | 31.24 | 26.31 | 107 |
| ... | 2 | 77 | 172 | .. | .. | 16.22 | 0.92 | 0.37 | 14.20 | 31.71 | 25.03 | 108 |
| ... | 5 | 275 | 647 | .. | .. | 13.50 | 0.58 | 0.19 | 16.02 | 24.60 | 27.92 | 109 |
| ... | 9 | 286 | 771 | .. | 0.06 | 27.47 | 4.62 | 0.57 | 18.12 | 18.81 | 34.83 | 110 |
| ... | 5 | 118 | 233 | .. | .. | 18.83 | .. | 0.86 | 20.20 | 30.59 | 30.03 | 111 |
| ... | 1 | 22 | 84 | .. | .. | 21.46 | .. | 0.35 | 7.71 | 29.55 | 24.48 | 112 |
| ... | .. | 33 | 101 | .. | .. | 15.49 | 0.17 | .. | 7.71 | 23.70 | 19.43 | 113 |
| 1 | 2 | 114 | 275 | .. | .. | 22.60 | 1.52 | 0.30 | 17.29 | 41.72 | 32.28 | 114 |
| 1 | 8 | 225 | 519 | .. | 0.06 | 12.65 | 3.67 | 0.16 | 12.91 | 29.78 | 30.96 | 115 |
| ... | 1 | 45 | 162 | .. | .. | 16.88 | 1.42 | 0.16 | 7.10 | 25.53 | 27.81 | 116 |
| 1 | 2 | 116 | 290 | .. | 0.11 | 16.72 | 1.85 | 0.22 | 12.60 | 31.49 | 31.49 | 117 |
| 1 | 2 | 82 | 219 | .. | .. | 14.27 | 4.32 | 0.28 | 11.47 | 30.63 | 26.61 | 118 |
| ... | 2 | 78 | 205 | .. | .. | 9.26 | 3.76 | 0.20 | 7.93 | 21.16 | 26.60 | 119 |
| ... | 7 | 49 | 316 | .. | .. | 25.61 | 1.13 | 0.72 | 5.05 | 32.51 | 26.46 | 120 |
| 1 | 5 | 95 | 526 | .. | .. | 19.99 | 8.30 | 0.33 | 6.31 | 34.94 | 36.73 | 121 |
| 1 | 15 | 453 | 1,453 | .. | .. | 23.84 | 1.85 | 0.39 | 11.82 | 37.90 | 38.53 | 122 |
| ... | ... | 21 | 48 | .. | .. | 17.14 | 1.37 | .. | 14.39 | 32.90 | 32.49 | 123 |
| 1 | 3 | 43 | 206 | .. | .. | 18.20 | 0.71 | 0.35 | 5.08 | 24.31 | 26.57 | 124 |
| 1 | 2 | 108 | 254 | .. | .. | 14.90 | 0.65 | 0.22 | 11.66 | 27.43 | 29.48 | 125 |
| ... | 2 | 45 | 118 | .. | .. | 24.11 | 2.61 | 0.75 | 16.96 | 44.46 | 44.76 | 126 |
| ... | ... | 13 | 30 | .. | .. | 7.14 | 0.45 | .. | 5.80 | 13.38 | 17.57 | 127 |
| ... | 1 | 58 | 115 | .. | .. | 13.90 | 0.51 | 0.26 | 14.93 | 29.60 | 37.03 | 128 |
| ... | 7 | 30 | 247 | .. | .. | 27.70 | 0.54 | 0.94 | 4.03 | 33.21 | 40.63 | 129 |
| ... | ... | 58 | 131 | .. | .. | 11.81 | 1.66 | .. | 10.70 | 24.17 | 30.03 | 130 |
| 2 | 26 | 446 | 1,863 | .. | 0.05 | 20.72 | 1.28 | 0.41 | 7.07 | 29.53 | 32.68 | 131 |
| 1 | 3 | 152 | 411 | .. | 0.42 | 15.68 | 1.74 | 0.21 | 10.59 | 28.05 | 31.69 | 132 |
| ... | 18 | 97 | 324 | .. | .. | 28.88 | 5.41 | 2.95 | 15.91 | 53.16 | 36.95 | 133 |
| ... | 4 | 40 | 196 | .. | .. | 18.42 | 1.58 | 0.53 | 5.26 | 25.79 | 21.76 | 134 |
| ... | 5 | 24 | 260 | .. | .. | 27.75 | 0.71 | 0.75 | 3.58 | 38.79 | 37.84 | 135 |
| ... | 3 | 49 | 212 | .. | .. | 31.42 | 4.23 | 0.67 | 10.92 | 47.24 | 36.94 | 136 |
| 2 | 17 | 313 | 1,162 | .. | 0.09 | 30.69 | 7.79 | 0.79 | 14.51 | 53.86 | 47.97 | 137 |
| 1 | 3 | 52 | 168 | .. | 0.53 | 10.59 | 0.85 | 0.32 | 5.50 | 17.78 | 15.48 | 138 |
| ... | 1 | 51 | 226 | .. | .. | 32.05 | 1.34 | 0.19 | 9.79 | 43.38 | 40.88 | 139 |
| ... | 1 | 27 | 174 | .. | 0.27 | 18.69 | 0.67 | 0.13 | 3.63 | 23.40 | 25.63 | 140 |
| ... | 3 | 34 | 133 | .. | 0.71 | 31.06 | 2.12 | 1.06 | 12.00 | 46.95 | 42.43 | 141 |
| ... | 11 | 205 | 718 | .. | 0.25 | 17.83 | 2.03 | 0.46 | 8.58 | 30.04 | 32.43 | 142 |
| ... | 6 | 72 | 185 | .. | 0.17 | 16.68 | 1.55 | 1.03 | 12.38 | 31.81 | 24.69 | 143 |
| ... | 1 | 78 | 314 | .. | .. | 35.33 | 3.29 | 0.10 | 12.82 | 51.60 | 31.26 | 144 |
| 1 | 2 | 27 | 117 | .. | .. | 21.16 | 0.49 | 0.49 | 6.64 | 28.79 | 25.49 | 145 |
| 1 | 1 | 1 | 86 | .. | .. | 23.18 | .. | 0.28 | 0.28 | 23.73 | 29.30 | 146 |
| 1 | 1 | 28 | 105 | .. | .. | 21.58 | 3.27 | 0.33 | 9.16 | 34.34 | 42.05 | 147 |
| 2 | 3 | 25 | 120 | .. | 0.29 | 22.82 | 3.14 | 0.86 | 7.13 | 34.24 | 40.11 | 148 |
| ... | ... | 16 | 85 | .. | .. | 25.47 | 1.57 | .. | 6.27 | 33.31 | 42.08 | 149 |
| ... | 1 | 50 | 123 | .. | .. | 29.29 | 0.41 | 0.41 | 20.63 | 50.74 | 57.43 | 150 |
| 67 | 725 | 25,814 | 66,439 | 0.001 | 0.21 | 17.44 | 2.19 | 0.36 | 12.84 | 33.05 | 35.36 | |
| 1,344 | 7,323 | 191,847 | 638,124 | ... | 0.24 | 20.35 | 0.77 | 0.36 | 9.33 | 31.05 | 31.30 | |

population of towns and rural circles. Their number 8,342 is, however, excluded from the total population of the Province.

APPENDIX TO ANNUAL FORM No. VI.

DEATHS REGISTERED IN THE CANTONMENTS OF THE PUNJAB DURING THE YEAR 1898.

| No. | Names of Cantonments | Population according to census of 1891. | Cholera. | Small pox. | Typhoid. | Dysentery and diarrhoea. | Injuries. | | | | | All other causes. | Total deaths from all causes. | Ratio of deaths per 1,000 of population. | Total births registered during the year. | Ratio of births per 1,000 of population. | No. |
|-------|----------------------|---|----------|------------|----------|--------------------------|-----------|----------|-------------------------|---------------------------------------|--------|-------------------|-------------------------------|--|--|--|-----|
| | | | | | | | Males. | Females. | Wounding and accidents. | Stab, shot and killed by wild beasts. | Total. | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 1 | Dera | 2,051 | . | . | 23 | . | . | .. | 1 | 1 | 2 | 8 | 33 | 11 | 18 | 6 | 1 |
| 2 | ... | 51,016 | 30 | .. | 756 | .. | 1 | .. | 2 | .. | .. | 613 | 1,408 | 28 | 670 | 13 | 2 |
| 3 | K... | 1,977 | . | . | 29 | . | . | .. | .. | .. | .. | 23 | 52 | 26 | 60 | 30 | 3 |
| 4 | Dag... | 2,569 | .. | . | 11 | 2 | . | .. | .. | .. | .. | 11 | 24 | 9 | 27 | 11 | 4 |
| 5 | S... | 2,171 | . | . | 26 | 5 | ... | ... | 1 | .. | 1 | 28 | 61 | 28 | 60 | 28 | 5 |
| 6 | J... | 557 | . | .. | 6 | 2 | . | ... | .. | .. | .. | 8 | 16 | 29 | 15 | 27 | 3 |
| 7 | D... | 3,106 | . | .. | 9 | 2 | .. | .. | 2 | .. | 2 | 60 | 78 | 21 | 54 | 16 | 7 |
| 8 | Julia... | 15,827 | .. | 2 | 149 | 1 | ... | ... | 1 | ... | 1 | 65 | 218 | 14 | 122 | 8 | 8 |
| 9 | Feroz... | 25,100 | ... | . | 568 | 4 | ... | ... | ... | ... | ... | 52 | 621 | 25 | 418 | 17 | 9 |
| 10 | Moolan... | 10,297 | ... | ... | 74 | 1 | .. | ... | ... | ... | ... | 39 | 114 | 11 | 96 | 9 | 10 |
| 11 | Meean... | 17,257 | ... | . | 117 | 11 | ... | ... | 2 | 1 | 3 | 51 | 162 | 11 | 79 | 5 | 11 |
| 12 | Amritsar | 1,365 | ... | ... | 19 | ... | 1 | .. | ... | ... | 1 | ... | 20 | 15 | 13 | 10 | 12 |
| 13 | Dal... | 125 | ... | ... | 2 | ... | .. | ... | 1 | ... | 1 | 7 | 10 | 24 | 9 | 21 | 13 |
| 14 | Bakloh | 2,508 | ... | .. | 16 | 1 | ... | ... | ... | .. | ... | 7 | 24 | 10 | 39 | 16 | 14 |
| 15 | Sialkot | 21,122 | ... | . | 166 | 1 | ... | .. | .. | ... | ... | 79 | 246 | 12 | 257 | 12 | 15 |
| 16 | Jhelum | 3,167 | ... | . | 9 | 1 | .. | ... | ... | ... | ... | 1 | 11 | 3 | 19 | 6 | 16 |
| 17 | Rawalpindi | 37,570 | ... | ... | 220 | 64 | 1 | .. | 4 | ... | 5 | 8 | 297 | 8 | 171 | 5 | 17 |
| 18 | Campbellpora | 2,556 | . | . | 33 | 1 | ... | ... | ... | .. | ... | 7 | 41 | 16 | 51 | 20 | 13 |
| 19 | Murree | 309 | ... | ... | 9 | ... | ... | ... | ... | ... | ... | 5 | 14 | 45 | 16 | 52 | 19 |
| 20 | Attock | 419 | ... | ... | 2 | ... | .. | .. | ... | ... | ... | 2 | 4 | 10 | ... | ... | 20 |
| 21 | Abbottabad | 7,750 | ... | ... | 10 | 3 | ... | .. | ... | ... | ... | 45 | 58 | 7 | 100 | 13 | 21 |
| 22 | Peshawar | 21,112 | ... | ... | 93 | 45 | 1 | ... | 2 | ... | 3 | 116 | 257 | 12 | 40 | 2 | 22 |
| 23 | Nowshera | 6,855 | ... | ... | 48 | 4 | 1 | .. | 2 | .. | 3 | 8 | 63 | 9 | 52 | 8 | 23 |
| 24 | Mardan | 3,537 | ... | ... | 15 | 3 | .. | ... | ... | ... | .. | 15 | 33 | 9 | 15 | 4 | 24 |
| 25 | Kohat | 12,656 | ... | ... | 9 | 25 | .. | ... | 1 | .. | 1 | 41 | 76 | 6 | 9 | 1 | 25 |
| 26 | Edwardesabad | 2,267 | ... | ... | 6 | 2 | . | ... | 1 | ... | 1 | 57 | 66 | 29 | 5 | 2 | 26 |
| 27 | Dera Ismail Khan | 3,638 | ... | ... | 4 | ... | ... | ... | ... | ... | .. | 21 | 25 | 7 | 1 | ... | 27 |
| 28 | Dera Ghazi Khan | 3,237 | ... | ... | 15 | 3 | ... | ... | 2 | .. | 2 | 14 | 34 | 11 | 16 | 5 | 28 |
| Total | | 263,926 | 30 | 2 | 2,447 | 179 | 5 | ... | 23 | 2 | 30 | 1,391 | 4,079 | 15 | 2,432 | 9 | |

ANNUAL FORM No. VII.

DEATHS REGISTERED FROM CHOLERA IN THE DISTRICTS OF THE PUNJAB DURING EACH MONTH OF THE YEAR 1908.

| 1 | | 2 | | 3 | | 4 | | 5 | | | | | | | | | | 6 | | | 7 | | | 8 | | 9 | |
|------------------------|----------------------|------------|-----|--------------------------|--|--------------------------|--|----------|-----------|--------|--------|------|-------|-------|---------|------------|----------|-----------|-----------|--------|--|--------|--------|---|--------|---|-----|
| No. | | DISTRICTS. | | CIRCLES OF REGISTRATION. | | TOWNS AND VILLAGES. | | MONTHS. | | | | | | | | | | TOTAL. | | | RATIO OF DEATHS PER 1,000 OF POPULATION. | | | MEAN RATIO PER 1,000 FOR PREVIOUS FIVE YEARS. | | | |
| | | | | Number in each district. | Number from which deaths from cholera were reported. | Number in each district. | Number from which deaths from cholera were reported. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Males. | Females. | Total. | Males. | Females. | Total. | Mean ratio per 1,000 for previous five years. | No. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | | |
| Delhi Division. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Hissar ... | 27 | ... | 1,009 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.15 | 1 | | | |
| 2 | Rohtak ... | 15 | ... | 511 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.01 | 2 | | | |
| 3 | Gurgaon ... | 21 | 1 | 1,204 | 1 | .. | .. | 2 | .. | .. | .. | .. | .. | .. | .. | .. | .. | 1 | 1 | 2 | 0.002 | 0.003 | 0.002 | 0.12 | 3 | | |
| 4 | Delhi ... | 19 | .. | 813 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.01 | 4 | | | |
| 5 | Karnal ... | 26 | .. | 1,421 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.02 | 5 | | | |
| 6 | Umballa ... | 18 | 1 | 1,811 | 1 | .. | .. | .. | .. | .. | .. | 1 | .. | .. | .. | .. | .. | 1 | 1 | 0.002 | .. | 0.001 | 0.13 | 6 | | | |
| 7 | Simla ... | 4 | .. | 165 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.07 | 7 | | | |
| Jullundur Divn. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Kanra ... | 18 | .. | 778 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.15 | 8 | | | |
| 9 | Hoshiarpur ... | 24 | .. | 2,189 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 9 | | | |
| 10 | Jullundur ... | 19 | .. | 1,356 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.002 | 10 | | | |
| 11 | Ludhiana ... | 15 | .. | 906 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.004 | 11 | | | |
| 12 | Ferozepore ... | 25 | .. | 1,645 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 12 | | | |
| Lahore Division. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Mooltan ... | 20 | .. | 1,593 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 13 | | | |
| 14 | Jhang ... | 17 | .. | 849 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.01 | 14 | | | |
| 15 | Montgomery ... | 21 | .. | 2,626 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.08 | 15 | | | |
| 16 | Lahore ... | 29 | .. | 1,672 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.06 | 16 | | | |
| 17 | Amritsar ... | 14 | .. | 1,104 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.03 | 17 | | | |
| 18 | Gurdaspur ... | 25 | .. | 2,401 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.01 | 18 | | | |
| Rawalpindi Divn. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | Siilkot ... | 21 | .. | 2,272 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 19 | | | |
| 20 | Gujrat ... | 13 | .. | 1,440 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 20 | | | |
| 21 | Gujranwala ... | 17 | .. | 1,241 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.10 | 21 | | | |
| 22 | Shahpur ... | 20 | .. | 838 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.03 | 22 | | | |
| 23 | Jhelum ... | 16 | .. | 1,077 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.01 | 23 | | | |
| 24 | Rawalpindi ... | 24 | .. | 1,841 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.57 | 24 | | | |
| Peshawar Divn. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | Hazara ... | 18 | .. | 856 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.04 | 25 | | | |
| 26 | Peshawar ... | 21 | .. | 767 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.14 | 26 | | | |
| 27 | Kohat ... | 12 | .. | 277 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.03 | 27 | | | |
| Derajat Division. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | Bannu ... | 19 | .. | 490 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.10 | 28 | | | |
| 29 | Dera Ismail Khan ... | 21 | .. | 835 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.01 | 29 | | | |
| 30 | Dera Ghazi Khan ... | 21 | .. | 760 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.15 | 30 | | | |
| 31 | Muzaffargarh ... | 18 | .. | 762 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 0.01 | 31 | | | |
| Total for the Province | | 508 | 2 | 37,602 | 2 | .. | .. | 2 | .. | .. | .. | 1 | .. | .. | .. | .. | .. | 2 | 1 | 3 | .. | .. | .. | 0.07 | | | |

ANNUAL FORM

DEATHS REGISTERED FROM SMALL-POX IN THE DISTRICTS

| 1 | 2 | 3 | | 4 | | 5 | | | | | | |
|-----------------------------|------------------|--------------------------|---|--------------------------|---|----------|-----------|--------|--------|------|-------|-------|
| | | CITIES & REGISTRATION | | TOWNS AND VILLAGES | | MONTHS | | | | | | |
| | | Number in each district. | Number from which deaths from small-pox were reported | Number in each district. | Number from which deaths from small-pox were reported | January. | February. | March. | April. | May. | June. | July. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Delhi Division. | | | | | | | | | | | | |
| 1 | Hissár | 27 | 15 | 1,000 | 61 | 4 | 1 | 1 | 9 | 2 | 23 | 7 |
| 2 | Rouree | 15 | 3 | 514 | 5 | .. | 2 | 1 | .. | 1 | 1 | 1 |
| 3 | Gurgaon | 21 | 12 | 1,264 | 43 | 6 | 9 | 8 | 19 | 31 | 46 | 18 |
| 4 | Delhi | 19 | 1 | 813 | 16 | 2 | 1 | 1 | 8 | 30 | 40 | 16 |
| 5 | Karnal | 26 | 18 | 1,421 | 65 | 5 | 15 | 26 | 55 | 171 | 22 | 6 |
| 6 | Umballa | 18 | 1 | 1,811 | 102 | 8 | 12 | 20 | 57 | 133 | 255 | 190 |
| 7 | Simla | 4 | .. | 165 | .. | .. | .. | .. | .. | .. | .. | .. |
| Jullundur Division. | | | | | | | | | | | | |
| 8 | Kangra | 18 | 1 | 778 | 1 | .. | .. | .. | .. | .. | 3 | .. |
| 9 | Hoshiarpur | 21 | .. | 2,180 | 102 | 21 | 30 | 35 | 58 | 53 | 42 | 22 |
| 10 | Jullundur | 19 | 8 | 1,356 | 67 | .. | 5 | 10 | 15 | 14 | 15 | 11 |
| 11 | Ludhiana | 15 | 10 | 906 | 90 | 6 | 11 | 12 | 19 | 34 | 27 | 15 |
| 12 | Ferozepore | 27 | .. | 1,615 | 241 | 16 | 15 | 21 | 28 | 48 | 63 | 41 |
| Lahore Division. | | | | | | | | | | | | |
| 13 | Mooltan | 20 | 11 | 1,543 | 15 | 6 | 2 | 1 | 2 | 6 | 4 | 1 |
| 14 | Jhang | 17 | 13 | 849 | 15 | 1 | 2 | 6 | 1 | 3 | 3 | 2 |
| 15 | Montgomery | 21 | 20 | 2,626 | 141 | 14 | 16 | 10 | 17 | 40 | 46 | 39 |
| 16 | Lahore | 20 | 24 | 1,672 | 140 | 35 | 26 | 25 | 22 | 41 | 39 | 19 |
| 17 | Amritsar | 14 | 14 | 1,104 | 241 | 20 | 18 | 16 | 34 | 44 | 76 | 51 |
| 18 | Gurdaspur | 25 | 19 | 2,401 | 71 | 17 | 13 | 19 | 24 | 33 | 31 | 21 |
| Rawalpindi Division. | | | | | | | | | | | | |
| 19 | Siakot | 21 | 21 | 2,272 | 213 | 45 | 78 | 49 | 48 | 111 | 110 | 66 |
| 20 | Gujrat | 13 | 4 | 1,440 | 11 | 1 | 1 | 1 | 1 | 4 | 8 | 2 |
| 21 | Gujranwala | 17 | 3 | 1,241 | 5 | 1 | 1 | .. | .. | 1 | .. | 1 |
| 22 | Shahpur | 20 | 7 | 838 | 7 | 2 | .. | 1 | 2 | 2 | 1 | 1 |
| 23 | Jhelum | 16 | 9 | 1,077 | 17 | 11 | 14 | 6 | 11 | 1 | .. | 1 |
| 24 | Rawalpindi | 24 | 10 | 1,841 | 59 | 16 | 12 | 13 | 14 | 13 | 4 | 3 |
| Peshawar Division. | | | | | | | | | | | | |
| 25 | Hazara | 18 | 9 | 886 | 84 | 19 | 27 | 14 | 9 | 15 | 20 | 13 |
| 26 | Peshawar | 21 | 16 | 767 | 79 | 32 | 23 | 19 | 6 | .. | 3 | 2 |
| 27 | Kohat | 12 | 9 | 277 | 23 | 7 | 7 | 5 | 6 | 9 | 6 | 8 |
| Derajat Division. | | | | | | | | | | | | |
| 28 | Bannu | 19 | 1 | 490 | 1 | .. | .. | 1 | .. | .. | 3 | .. |
| 29 | Dera Ismail Khan | 21 | 16 | 835 | 29 | 2 | 4 | 22 | 21 | 15 | 9 | 5 |
| 30 | Dera Ghazi Khan | 21 | 16 | 760 | 45 | 8 | 11 | 10 | 17 | 20 | 24 | 9 |
| 31 | Muzaffargarh | 18 | 10 | 762 | 15 | 9 | 4 | 9 | 6 | 8 | 3 | 3 |
| Total for the Province | | 598 | 371 | 37,602 | 2,306 | 323 | 363 | 367 | 479 | 886 | 927 | 604 |

No. VIII.

OF THE PUNJAB DURING EACH MONTH OF THE YEAR 1898.

| | | | | | 6 | | | 7 | | 8 | | | 9 | 10 |
|---------|------------|----------|-----------|-----------|--------|----------|--------|----------------------------------|------------------------------|--|----------|--------|---|-----|
| | | | | | TOTAL. | | | NUMBER OF DEATHS AMONG CHILDREN. | | TOTAL RATIO OF DEATHS PER 1,000 OF POPULATION. | | | Mean ratio per 1,000 for previous five years. | No. |
| August. | September. | October. | November. | December. | Males. | Females. | Total. | Under one year. | Over one and under 10 years. | Males. | Females. | Total. | | |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 10 | 2 | 3 | 2 | 6 | 42 | 31 | 73 | 7 | 56 | 0·10 | 0·09 | 0·09 | 1·26 | 1 |
| ... | 2 | .. | ... | 1 | 4 | 5 | 9 | 3 | 4 | 0·01 | 0·02 | 0·02 | 0·17 | 2 |
| 13 | 6 | ... | ... | .. | 97 | 89 | 186 | 44 | 137 | 0·28 | 0·28 | 0·28 | 1·40 | 3 |
| 2 | 2 | 1 | ... | 2 | 55 | 50 | 105 | 17 | 80 | 0·16 | 0·17 | 0·17 | 0·55 | 4 |
| 6 | 10 | 9 | 13 | ... | 183 | 155 | 338 | 95 | 240 | 0·39 | 0·39 | 0·39 | 1·02 | 5 |
| 30 | 18 | 24 | 8 | 18 | 451 | 412 | 863 | 169 | 627 | 1·03 | 1·13 | 1·07 | 1·48 | 6 |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 0·15 | 7 |
| ... | ... | .. | ... | ... | 2 | 1 | 3 | ... | ... | 0·01 | 0·002 | 0·003 | 0·02 | 8 |
| 9 | 7 | 1 | 4 | 7 | 117 | 145 | 262 | 73 | 186 | 0·22 | 0·31 | 0·26 | 0·25 | 9 |
| 3 | 1 | 5 | 11 | 18 | 58 | 56 | 114 | 36 | 61 | 0·12 | 0·14 | 0·13 | 0·41 | 10 |
| 8 | 7 | 4 | 4 | 4 | 86 | 65 | 151 | 20 | 120 | 0·24 | 0·22 | 0·23 | 1·04 | 11 |
| 34 | 19 | 19 | 12 | 13 | 190 | 139 | 329 | 51 | 233 | 0·40 | 0·35 | 0·38 | 1·52 | 12 |
| 3 | 6 | ... | ... | 2 | 13 | 20 | 33 | 2 | 19 | 0·04 | 0·07 | 0·05 | 0·44 | 13 |
| ... | 3 | 2 | ... | 4 | 15 | 12 | 27 | 16 | 9 | 0·06 | 0·06 | 0·06 | 0·89 | 14 |
| 26 | 13 | 10 | 20 | 22 | 133 | 140 | 273 | 52 | 197 | 0·49 | 0·61 | 0·55 | 1·25 | 15 |
| 20 | 32 | 23 | 21 | 18 | 171 | 153 | 324 | 62 | 231 | 0·30 | 0·32 | 0·31 | 1·03 | 16 |
| 28 | 23 | 12 | 9 | 1 | 186 | 146 | 332 | 63 | 240 | 0·34 | 0·33 | 0·34 | 0·49 | 17 |
| 17 | 6 | 2 | ... | 8 | 80 | 111 | 191 | 42 | 127 | 0·16 | 0·26 | 0·20 | 0·19 | 18 |
| 33 | 20 | 20 | 19 | 16 | 328 | 287 | 615 | 159 | 400 | 0·56 | 0·56 | 0·56 | 0·46 | 19 |
| ... | ... | ... | ... | ... | 13 | 5 | 18 | 4 | 11 | 0·03 | 0·01 | 0·02 | 0·67 | 20 |
| ... | ... | ... | 2 | 3 | 6 | 3 | 9 | 5 | 3 | 0·02 | 0·01 | 0·01 | 0·45 | 21 |
| ... | ... | ... | ... | ... | 5 | 4 | 9 | 3 | 5 | 0·02 | 0·02 | 0·02 | 1·17 | 22 |
| ... | .. | ... | ... | ... | 28 | 16 | 44 | 21 | 18 | 0·09 | 0·06 | 0·07 | 0·69 | 23 |
| ... | 1 | 2 | 3 | ... | 45 | 41 | 86 | 34 | 35 | 0·10 | 0·10 | 0·10 | 0·73 | 24 |
| 4 | ... | ... | ... | ... | 55 | 66 | 121 | 22 | 86 | 0·22 | 0·30 | 0·25 | 1·08 | 25 |
| 4 | 2 | 9 | 7 | 18 | 75 | 50 | 125 | 62 | 62 | 0·21 | 0·16 | 0·18 | 1·39 | 26 |
| 1 | 3 | 12 | 12 | 20 | 44 | 52 | 96 | 17 | 74 | 0·46 | 0·61 | 0·53 | 0·84 | 27 |
| ... | ... | ... | ... | ... | 2 | 2 | 4 | ... | 3 | 0·01 | 0·01 | 0·01 | 1·56 | 28 |
| 10 | 2 | 4 | 1 | 12 | 63 | 44 | 107 | 20 | 82 | 0·24 | 0·20 | 0·22 | 0·81 | 29 |
| 2 | ... | ... | ... | ... | 47 | 54 | 101 | 21 | 60 | 0·22 | 0·30 | 0·25 | 0·27 | 30 |
| 3 | 1 | 4 | ... | ... | 22 | 28 | 50 | 10 | 25 | 0·11 | 0·16 | 0·13 | 0·44 | 31 |
| 326 | 216 | 166 | 148 | 193 | 2,616 | 2,382 | 4,998 | 1,130 | 3,381 | 0·24 | 0·25 | 0·24 | 0·78 | |

ANNUAL FORM

DEATHS REGISTERED FROM FEVERS IN THE DISTRICTS

| 1 | 2 | 3 | | 4 | | 5 | | | | | |
|-----------------------------|----------|--------------------------|---|-------------------------|--|---------|----------|--------|--------|--------|--------|
| No | DISTRICT | CIRCLES OF REGISTRATION. | | TOWNS AND VILLAGES. | | MONTHS | | | | | |
| | | Number in each district | Number from which deaths from fever were reported | Number in each district | Number from which deaths from fever were reported. | January | February | March | April | May | June |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Delhi Division | | | | | | | | | | | |
| 1 | H | 27 | 27 | 1,000 | 1,000 | 1,172 | 957 | 1,079 | 1,100 | 1,268 | 1,562 |
| 2 | R | 15 | 15 | 511 | 500 | 516 | 613 | 938 | 1,019 | 1,025 | 1,380 |
| 3 | G | 21 | 21 | 1,204 | 1,204 | 1,227 | 908 | 1,328 | 1,470 | 1,635 | 1,840 |
| 4 | D | 19 | 19 | 513 | 688 | 948 | 615 | 834 | 998 | 1,111 | 1,321 |
| 5 | K | 26 | 26 | 1,421 | 1,263 | 1,959 | 1,304 | 1,331 | 1,428 | 2,222 | 2,217 |
| 6 | U | 18 | 18 | 1,811 | 1,612 | 1,352 | 913 | 1,030 | 1,228 | 1,491 | 1,566 |
| 7 | S | 4 | 4 | 163 | 132 | 21 | 19 | 38 | 21 | 37 | 31 |
| Jullundur Division | | | | | | | | | | | |
| 8 | K | 18 | 18 | 778 | 722 | 1,100 | 888 | 951 | 1,504 | 1,414 | 1,509 |
| 9 | H | 24 | 24 | 2,189 | 1,663 | 1,001 | 770 | 777 | 943 | 1,184 | 1,285 |
| 10 | J | 19 | 19 | 1,356 | 1,103 | 959 | 654 | 632 | 832 | 1,167 | 1,126 |
| 11 | L | 15 | 15 | 906 | 847 | 908 | 717 | 725 | 955 | 1,160 | 1,196 |
| 12 | F | 25 | 25 | 1,645 | 1,170 | 1,616 | 1,050 | 988 | 1,082 | 1,542 | 1,394 |
| Lahore Division | | | | | | | | | | | |
| 13 | M | 20 | 20 | 1,593 | 1,312 | 1,835 | 1,043 | 916 | 788 | 1,150 | 960 |
| 14 | J | 17 | 17 | 819 | 832 | 1,447 | 681 | 171 | 123 | 171 | 976 |
| 15 | M | 21 | 21 | 2,026 | 935 | 759 | 475 | 372 | 326 | 467 | 506 |
| 16 | L | 29 | 29 | 1,672 | 1,657 | 1,599 | 1,081 | 1,014 | 1,082 | 1,740 | 1,929 |
| 17 | A | 14 | 14 | 1,104 | 1,039 | 1,128 | 862 | 930 | 1,002 | 1,636 | 1,885 |
| 18 | G | 25 | 25 | 2,401 | 2,050 | 1,207 | 922 | 966 | 1,174 | 1,652 | 1,568 |
| Rawalpindi Division. | | | | | | | | | | | |
| 19 | S | 21 | 21 | 2,272 | 1,991 | 1,336 | 1,113 | 1,107 | 1,204 | 1,886 | 1,737 |
| 20 | G | 13 | 13 | 1,440 | 1,257 | 1,119 | 722 | 659 | 727 | 971 | 1,074 |
| 21 | G | 17 | 17 | 1,241 | 1,240 | 1,457 | 1,090 | 1,153 | 1,024 | 1,895 | 1,735 |
| 22 | S | 20 | 20 | 838 | 835 | 1,232 | 711 | 609 | 558 | 696 | 753 |
| 23 | J | 16 | 16 | 1,077 | 987 | 1,514 | 881 | 737 | 682 | 795 | 883 |
| 24 | R | 24 | 21 | 1,841 | 1,681 | 2,400 | 1,433 | 1,251 | 1,153 | 1,316 | 1,288 |
| Peshawar Division | | | | | | | | | | | |
| 25 | H | 18 | 18 | 886 | 611 | 840 | 616 | 635 | 440 | 452 | 506 |
| 26 | P | 21 | 21 | 767 | 723 | 1,296 | 1,260 | 1,066 | 975 | 1,227 | 1,153 |
| 27 | K | 12 | 12 | 277 | 277 | 767 | 540 | 369 | 290 | 221 | 219 |
| Derajat Division. | | | | | | | | | | | |
| 28 | B | 19 | 19 | 490 | 488 | 1,065 | 1,140 | 843 | 854 | 567 | 752 |
| 29 | D | 21 | 21 | 835 | 805 | 2,386 | 1,522 | 1,956 | 1,053 | 1,256 | 1,453 |
| 30 | D | 21 | 21 | 760 | 465 | 1,393 | 785 | 734 | 1,674 | 688 | 549 |
| 31 | M | 18 | 18 | 762 | 599 | 1,325 | 885 | 984 | 1,009 | 757 | 558 |
| TOTAL FOR THE PROVINCE | | 598 | 598 | 37,602 | 31,853 | 40,567 | 27,263 | 27,173 | 23,808 | 34,822 | 36,884 |

No. IX.

OF THE PUNJAB DURING EACH MONTH OF THE YEAR 1898.

| | | | | | | 6 | | | 7 | | | 8 | 9 |
|--------|--------|-----------|---------|----------|----------|---------|---------|---------|--|---------|-------|---|-----|
| | | | | | | TOTAL | | | TOTAL RATIO OF DEATHS PER 1,000 OF POPULATION | | | Mean ratio per 1,000 for the year five years | No. |
| July | August | September | October | November | December | Males | Females | Total | Males | Females | Total | | |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 1,267 | 1,238 | 1,262 | 1,577 | 1,490 | 1,206 | 7,914 | 7,621 | 15,535 | 1918 | 2112 | 2005 | 2252 | 1 |
| 811 | 974 | 884 | 1,201 | 1,527 | 950 | 6,531 | 5,847 | 12,228 | 1,123 | 2120 | 2071 | 2060 | 2 |
| 1,314 | 1,265 | 1,425 | 1,256 | 1,733 | 1,058 | 9,052 | 8,000 | 17,412 | 2385 | 2023 | 2003 | 2081 | 3 |
| 916 | 886 | 941 | 1,151 | 1,197 | 1,243 | 5,935 | 6,106 | 12,101 | 1713 | 2111 | 1111 | 2114 | 4 |
| 1,839 | 1,651 | 1,576 | 2,208 | 1,938 | 1,874 | 11,012 | 10,500 | 21,500 | 2355 | 2680 | 2500 | 2532 | 5 |
| 1,207 | 1,032 | 1,316 | 1,666 | 1,491 | 1,800 | 8,058 | 7,707 | 15,735 | 1837 | 2165 | 1950 | 2571 | 6 |
| 26 | 45 | 35 | 28 | 21 | 19 | 190 | 151 | 241 | 837 | 1177 | 276 | 101 | 7 |
| 761 | 1,640 | 1,774 | 1,163 | 1,129 | 1,311 | 7,830 | 7,757 | 15,587 | 1985 | 2125 | 2051 | 2157 | 8 |
| 1,010 | 1,214 | 2,022 | 2,173 | 1,637 | 1,453 | 7,651 | 7,870 | 15,521 | 1417 | 1600 | 1530 | 2100 | 9 |
| 943 | 1,033 | 1,000 | 1,957 | 1,222 | 1,097 | 6,097 | 6,335 | 12,372 | 1253 | 1315 | 1385 | 2331 | 10 |
| 881 | 1,100 | 1,154 | 1,327 | 1,213 | 1,025 | 6,058 | 6,363 | 12,451 | 1718 | 2162 | 1920 | 2100 | 11 |
| 1,075 | 1,101 | 1,081 | 1,557 | 1,638 | 1,507 | 7,878 | 7,803 | 15,741 | 1679 | 2005 | 1927 | 1700 | 12 |
| 723 | 632 | 600 | 1,008 | 1,386 | 1,200 | 6,515 | 5,718 | 12,233 | 1919 | 2014 | 1976 | 1915 | 13 |
| 773 | 777 | 665 | 826 | 1,276 | 1,246 | 4,876 | 4,256 | 9,132 | 2088 | 2001 | 2001 | 1597 | 14 |
| 316 | 287 | 300 | 390 | 511 | 529 | 2,730 | 2,517 | 5,247 | 1013 | 1095 | 1051 | 1250 | 15 |
| 1,518 | 1,579 | 1,720 | 2,517 | 2,431 | 2,419 | 10,583 | 9,896 | 20,179 | 1827 | 2077 | 1940 | 1913 | 16 |
| 1,455 | 1,721 | 1,941 | 2,261 | 2,205 | 1,572 | 9,450 | 9,555 | 18,994 | 1715 | 2123 | 1917 | 2142 | 17 |
| 1,362 | 1,500 | 2,070 | 2,053 | 2,230 | 1,768 | 9,700 | 9,361 | 19,141 | 1909 | 2183 | 2035 | 2233 | 18 |
| 1,490 | 1,926 | 2,725 | 3,303 | 2,921 | 2,278 | 11,498 | 11,467 | 22,965 | 1907 | 2231 | 2090 | 1941 | 19 |
| 974 | 1,187 | 1,605 | 1,847 | 1,676 | 1,513 | 7,100 | 6,065 | 13,074 | 1775 | 1933 | 1850 | 1484 | 20 |
| 1,362 | 1,610 | 1,505 | 1,680 | 2,272 | 1,826 | 9,639 | 8,073 | 18,612 | 2543 | 2884 | 2607 | 2149 | 21 |
| 618 | 531 | 448 | 501 | 701 | 827 | 4,159 | 4,119 | 8,278 | 1611 | 1750 | 1677 | 1137 | 22 |
| 815 | 862 | 1,037 | 1,472 | 1,403 | 1,338 | 6,241 | 6,186 | 12,427 | 1981 | 2128 | 2051 | 1676 | 23 |
| 1,171 | 1,237 | 1,459 | 2,165 | 2,301 | 2,112 | 9,863 | 9,423 | 19,286 | 2201 | 2369 | 2282 | 2235 | 24 |
| 453 | 511 | 583 | 744 | 633 | 674 | 3,506 | 3,579 | 7,087 | 1386 | 1605 | 1488 | 1784 | 25 |
| 1,013 | 1,065 | 922 | 1,015 | 1,078 | 1,207 | 7,472 | 5,900 | 13,372 | 2067 | 1857 | 1969 | 1825 | 26 |
| 264 | 254 | 257 | 430 | 408 | 517 | 2,312 | 2,224 | 4,536 | 2394 | 2589 | 2486 | 2495 | 27 |
| 603 | 490 | 611 | 661 | 835 | 1,036 | 5,463 | 4,891 | 10,357 | 2791 | 2805 | 2799 | 2239 | 28 |
| 715 | 556 | 805 | 1,027 | 1,406 | 1,423 | 8,054 | 7,509 | 15,563 | 3129 | 3337 | 3226 | 2323 | 29 |
| 447 | 706 | 513 | 775 | 745 | 693 | 5,393 | 4,309 | 9,702 | 2170 | 2374 | 2426 | 2298 | 30 |
| 499 | 516 | 531 | 832 | 1,147 | 976 | 5,265 | 4,754 | 10,019 | 2545 | 2730 | 2629 | 2516 | 31 |
| 28,692 | 31,221 | 35,070 | 43,075 | 43,824 | 40,807 | 213,917 | 204,289 | 418,206 | 1938 | 2147 | 2035 | 2056 | |

ANNUAL FORM

DEATHS REGISTERED FROM DYSENTERY AND DIARRHŒA IN THE DISTRICTS

| 1 No. | 2 DISTRICTS. | 3 CIRCLES OF REGISTRATION. | | 4 TOWNS AND VILLAGES. | | 5 MONTHS | | | | | |
|----------|-----------------------------------|----------------------------------|--|-------------------------------|--|--------------|------------|------------|------------|--------------|--------------|
| | | Number in each dis- trict. | Number from which deaths from dysen- tery and diarrhœa were reported. | Number in each dis- trict. | Number from which deaths from dysen- tery and diarrhœa were reported. | January. | February. | March. | April. | May. | June. |
| | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | Delhi Division. | | | | | | | | | | |
| 1 | Hissâr | 27 | 27 | 1,009 | 150 | 52 | 27 | 16 | 29 | 34 | 47 |
| 2 | Rohtak | 15 | 15 | 514 | 295 | 24 | 15 | 13 | 8 | 16 | 16 |
| 3 | Gurgâon | 21 | 21 | 1,264 | 232 | 62 | 35 | 33 | 49 | 60 | 62 |
| 4 | Delhi | 10 | 19 | 813 | 240 | 58 | 24 | 34 | 43 | 52 | 83 |
| 5 | Karnâl | 26 | 26 | 1,421 | 145 | 33 | 23 | 38 | 43 | 54 | 55 |
| 6 | Umballa | 18 | 18 | 1,811 | 280 | 39 | 28 | 30 | 27 | 38 | 53 |
| 7 | Simla | 4 | 4 | 165 | 18 | 4 | 2 | 2 | 1 | 4 | 9 |
| | Jullundur Division. | | | | | | | | | | |
| 8 | Kángra | 18 | 18 | 778 | 388 | 56 | 39 | 40 | 42 | 79 | 99 |
| 9 | Hoshiárpur | 24 | 24 | 2,180 | 354 | 30 | 49 | 52 | 108 | 98 | 64 |
| 10 | Jullundur | 19 | 19 | 1,356 | 142 | 32 | 13 | 35 | 64 | 62 | 51 |
| 11 | Ludhiána | 15 | 15 | 906 | 116 | 45 | 20 | 20 | 37 | 40 | 22 |
| 12 | Ferozepore | 25 | 25 | 1,645 | 150 | 15 | 46 | 39 | 48 | 61 | 42 |
| | Lahore Division. | | | | | | | | | | |
| 13 | Mooltan | 20 | 20 | 1,593 | 37 | 55 | 23 | 24 | 28 | 30 | 20 |
| 14 | Jhang | 17 | 17 | 849 | 95 | 41 | 21 | 13 | 17 | 29 | 30 |
| 15 | Montgomery | 21 | 21 | 2,626 | 119 | 22 | 14 | 11 | 15 | 11 | 22 |
| 16 | Lahore | 20 | 28 | 1,672 | 144 | 31 | 26 | 23 | 34 | 46 | 36 |
| 17 | Amritsar | 14 | 13 | 1,104 | 255 | 56 | 36 | 39 | 42 | 68 | 66 |
| 18 | Guriláspur | 25 | 25 | 2,401 | 559 | 44 | 31 | 30 | 63 | 114 | 66 |
| | Rawalpindi Division. | | | | | | | | | | |
| 19 | Siálkot | 21 | 21 | 2,272 | 435 | 15 | 31 | 33 | 47 | 107 | 74 |
| 20 | Gujrát | 13 | 13 | 1,440 | 215 | 13 | 14 | 12 | 24 | 23 | 15 |
| 21 | Gujránwála | 17 | 15 | 1,241 | 70 | 14 | 1 | 3 | 8 | 20 | 9 |
| 22 | Shahpur | 20 | 20 | 838 | 150 | 41 | 32 | 19 | 26 | 30 | 36 |
| 23 | Jhelum | 16 | 16 | 1,077 | 115 | 33 | 23 | 15 | 19 | 31 | 44 |
| 24 | Ráwalpindi | 24 | 21 | 1,841 | 38 | 20 | 8 | 6 | 5 | 11 | 12 |
| | Peshawar Division. | | | | | | | | | | |
| 25 | Hazára | 18 | 11 | 886 | 16 | ... | 5 | 2 | 1 | ... | 3 |
| 26 | Pesháwar | 21 | 17 | 767 | 109 | 13 | 13 | 24 | 16 | 17 | 10 |
| 27 | Kohát | 12 | 5 | 277 | 9 | 7 | 1 | 1 | 3 | 2 | 2 |
| | Derajat Division. | | | | | | | | | | |
| 28 | Bannu | 19 | 15 | 490 | 55 | 35 | 12 | 11 | 13 | 15 | 9 |
| 29 | Dera Ismail Khan | 21 | 21 | 835 | 135 | 66 | 38 | 43 | 22 | 46 | 32 |
| 30 | Dera Gházi Khan | 21 | 17 | 760 | 65 | 35 | 21 | 6 | 9 | 14 | 8 |
| 31 | Muzaffargarh | 18 | 19 | 762 | 69 | 51 | 23 | 26 | 5 | 5 | 8 |
| | TOTAL FOR THE PROVINCE ... | 598 | 565 | 37,602 | 5,200 | 1,108 | 694 | 698 | 896 | 1,217 | 1,105 |

No. X.

OF THE PUNJAB DURING EACH MONTH OF THE YEAR 1895.

| | | | | | | 6 | | | 7 | | | 8 | 9 |
|-------|--------|-----------|---------|----------|----------|--------|---------|--------|---|---------|-------|---|-----|
| | | | | | | TOTAL. | | | RATIO OF DEATHS FOR 1,000 OF POPULATION | | | Mean ratio per 1,000 for previous five years. | No. |
| July | August | September | October | November | December | Males. | Females | Total | Males | Females | Total | | |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 51 | 77 | 58 | 40 | 50 | 73 | 255 | 122 | 523 | 0.71 | 0.65 | 0.67 | 0.91 | 1 |
| 17 | 30 | 27 | 36 | 72 | 40 | 171 | 135 | 326 | 0.55 | 0.56 | 0.55 | 0.64 | 2 |
| 80 | 81 | 103 | 121 | 88 | 122 | 438 | 420 | 1,158 | 1.42 | 1.62 | 1.37 | 1.51 | 3 |
| 62 | 66 | 78 | 75 | 71 | 88 | 424 | 414 | 744 | 1.24 | 1.06 | 1.16 | 1.53 | 4 |
| 17 | 60 | 56 | 53 | 76 | 62 | 350 | 25 | 600 | 0.75 | 0.64 | 0.70 | 1.10 | 5 |
| 50 | 54 | 39 | 74 | 68 | 55 | 373 | 250 | 612 | 0.80 | 0.71 | 0.76 | 1.24 | 6 |
| 16 | 11 | 5 | 4 | 8 | 2 | 35 | 0 | 18 | 1.58 | 2.52 | 1.93 | 2.20 | 7 |
| 54 | 56 | 65 | 48 | 40 | 43 | 358 | 312 | 670 | 0.91 | 0.85 | 0.88 | 1.02 | 8 |
| 61 | 103 | 151 | 180 | 145 | 59 | 580 | 528 | 1,108 | 1.07 | 1.12 | 1.10 | 0.89 | 9 |
| 40 | 73 | 77 | 112 | 87 | 45 | 367 | 356 | 720 | 0.76 | 0.86 | 0.81 | 0.76 | 10 |
| 24 | 35 | 55 | 56 | 38 | 25 | 226 | 191 | 417 | 0.64 | 0.65 | 0.64 | 0.89 | 11 |
| 43 | 73 | 64 | 68 | 56 | 50 | 356 | 284 | 640 | 0.76 | 0.72 | 0.74 | 0.66 | 12 |
| 25 | 20 | 47 | 57 | 42 | 52 | 237 | 195 | 432 | 0.79 | 0.69 | 0.70 | 0.92 | 13 |
| 17 | 34 | 32 | 23 | 27 | 35 | 198 | 131 | 320 | 0.85 | 0.64 | 0.75 | 0.62 | 14 |
| 14 | 12 | 13 | 32 | 17 | 14 | 118 | 79 | 197 | 0.44 | 0.34 | 0.39 | 0.43 | 15 |
| 45 | 61 | 87 | 114 | 90 | 73 | 410 | 256 | 666 | 0.71 | 0.54 | 0.63 | 0.56 | 16 |
| 62 | 83 | 140 | 162 | 120 | 94 | 576 | 392 | 968 | 1.06 | 0.87 | 0.98 | 1.24 | 17 |
| 74 | 193 | 332 | 287 | 208 | 100 | 863 | 744 | 1,607 | 1.69 | 1.73 | 1.71 | 1.14 | 18 |
| 62 | 93 | 259 | 226 | 123 | 84 | 892 | 498 | 1,190 | 1.18 | 0.97 | 1.08 | 1.02 | 19 |
| 15 | 43 | 129 | 121 | 75 | 25 | 289 | 220 | 500 | 0.72 | 0.61 | 0.67 | 0.40 | 20 |
| 10 | 23 | 32 | 24 | 24 | 21 | 115 | 74 | 189 | 0.30 | 0.24 | 0.27 | 0.26 | 21 |
| 36 | 54 | 40 | 51 | 46 | 40 | 246 | 209 | 455 | 0.95 | 0.89 | 0.92 | 0.68 | 22 |
| 34 | 43 | 36 | 66 | 40 | 24 | 214 | 194 | 408 | 0.68 | 0.67 | 0.67 | 0.43 | 23 |
| 17 | 18 | 22 | 24 | 14 | 10 | 114 | 53 | 167 | 0.25 | 0.13 | 0.20 | 0.17 | 24 |
| 4 | 1 | 2 | 4 | 7 | 2 | 16 | 15 | 31 | 0.06 | 0.07 | 0.07 | 0.11 | 25 |
| 7 | 13 | 12 | 12 | 13 | 9 | 113 | 46 | 159 | 0.31 | 0.14 | 0.23 | 0.21 | 26 |
| 1 | 4 | 4 | 5 | 4 | 1 | 20 | 15 | 35 | 0.21 | 0.17 | 0.19 | 0.17 | 27 |
| 8 | 15 | 13 | 14 | 15 | 11 | 96 | 75 | 171 | 0.49 | 0.43 | 0.46 | 0.37 | 28 |
| 30 | 42 | 55 | 55 | 52 | 44 | 285 | 240 | 525 | 1.11 | 1.07 | 1.09 | 0.64 | 29 |
| 9 | 20 | 13 | 17 | 14 | 6 | 94 | 78 | 172 | 0.43 | 0.43 | 0.43 | 0.25 | 30 |
| 12 | 9 | 5 | 19 | 22 | 16 | 118 | 83 | 201 | 0.57 | 0.48 | 0.53 | 0.48 | 31 |
| 1,054 | 1,536 | 2,184 | 2,192 | 1,771 | 1,292 | 8,827 | 6,920 | 15,747 | 0.80 | 0.73 | 0.77 | 0.77 | |

STATEMENT No. XI.

STATEMENT SHOWING THE CHIEF SANITARY DEFECTS IN THE MUNICIPALITIES OF THE PUNJAB DURING THE YEAR 1898.

| No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|-----------|-----------------------|---|---------------------------------------|--|--|--|-----|
| No. | District. | Name of Municipality. | Population according to census of 1891. | Total deaths per 1,000 of population. | CHIEF SANITARY DEFECTS. | | Remedial measures adopted. | No. |
| | | | | | Water supply. | Drainage. | | |
| 1 | Hissar. | Hissar ... | 16,854 | 86.79 | The supply is obtained from wells. The water of the wells in the town is very hard, but in those outside it is good. | The northern and western portions of the town are on high ground and are drained by <i>galka</i> drains, but there is not sufficient water and the grades are too flat to allow of proper flushing; consequently they generally contain stagnant matter which is periodically removed. The eastern and southern portions of the town have very few drains or paved streets. There are several large depressions in the town which become stagnant pools after rains. There are also large depressions outside the town which are generally swamps and affect the health of the town. The sewage from some of the houses is collected in small masonry tanks, but the greater part finds its way into the street drains which, as remarked before, are not properly drained. | All the depressions inside or outside the town have been filled in; a settlement for the drainage of the low piece of land to the east of the town from Mori Gate, including the Ghasi and Gujra Mohalla, is under consideration of the Committee. Rs. 313 and Rs. 2,907 were spent respectively on drainage and water-supply. | 1 |
| 2 | Hansi | Hansi ... | 15,180 | 27.91 | Water is obtained from wells. Those in the town are slightly brackish and contaminated by sewage; those outside have much better water. A branch of the Western Jumna Canal runs partly round the town and its water is used for washing clothes and bathing. | The drainage is inefficient. Part of the town has <i>galka</i> drains and paved streets, but there are no proper arrangements for having them properly flushed. The town is surrounded by swamps caused in part by the branch of the canal lying on a higher level than the surrounding country. Into these swamps the drainage and part of the sewage of the town find their way. This renders the town very subject to malarial fever. The sewage is also allowed to sink into the ground round the houses and into the streets thus breeding disease. | Drainage scheme is still under consideration ... | 2 |
| 3 | Hissar. | Bhiwani ... | 35,437 | 31.79 | The water-supply is most defective. There are two wells outside the town, the water of which is good, but all the wells in the city are either brackish or contaminated, and this polluted water is chiefly used, the charge for drawing water from the two good wells outside the town being very high. A good water-supply is a pressing necessity. | The town drains and sewage systems are very bad. The town lies in a hollow and the drainage, charged with sewage from the houses, collects in tanks, mostly in the town itself. A drainage scheme is urgently required and should be taken in hand when the canal bringing good water to the tanks is constructed, as in that case, all drainage must be shut off from the tanks. | The work of construction of water-works, it is hoped, will be commenced with effect from the 1st April 1899. The pipes, &c., will be received here during the month of February 1899. Rs. 2,215 and Rs. 225 were spent on water-supply and repairs to latrines respectively. | 3 |
| 4 | Hissar. | Sirsa ... | 16,115 | 34.97 | A good water-supply is a pressing necessity. | The drains are most inefficient. Three or four of the principal streets are paved and have <i>galka</i> side drains, but there are no flushing arrangements and not even outlets, the main drain into which their drain age is supposed to flow being at a higher level than the street drains themselves. | Some drinking wells have been cleaned and three wells have been provided with parapets. Rs. 786 were spent on pavements. | 4 |

| | | | | | | | | |
|----|-------------|-----|--------|-------|---|---|---|--|
| 5 | Fatehabad | ... | 2,848 | 22-12 | | The drainage finds its way into tanks inside the town of Sirsa and the city drain outside. The smell from these is most offensive, and the streets in the neighbourhood of the tanks are periodically flooded with foul water. The sewage is allowed to accumulate in the streets and on the ground about the houses. | 5 | The Fatehabad Municipality has been abolished and the town constituted as notified area. The revenue is insufficient to maintain its establishment. |
| 6 | Rohtak | ... | 16,191 | 26-19 | Water generally saltish or brackish | ... | 6 | Several lanes and streets have been paved. <i>Pukkals</i> have been entertained to carry away waste water from cesspools attached to private houses. |
| 7 | Jhajjar | ... | 11,881 | 25-42 | Water for drinking purposes is obtained from wells outside the town, but these are contaminated by town drainage, and one considered the best, is near a graveyard. The wells inside the city are brackish. Tanks outside the town are used for bathing and washing. | 7 | Several lanes and streets have been paved and the latrines have been repaired. | |
| 8 | Beri | ... | 9,825 | 27-38 | Water is obtained from wells outside the town. These wells are suspicious, as the drainage of the town finds its way into them. The wells inside the town are brackish and are used for bathing purposes, &c. | 8 | Several lanes and streets have been paved | |
| 9 | Gohana | ... | 7,600 | 25-10 | Water generally saltish or brackish | ... | 9 | The Municipality has constructed pavements around the drinking wells and the tanks attached to them in order to carry waste water to some distance. |
| 10 | Bahadurgarh | ... | 6,103 | 24-58 | Ditto | ... | 10 | ... |
| 11 | Rewari | ... | 27,984 | 22-20 | The wells inside the town are <i>pukka</i> , but contain water impregnated with lime and salts. The wells containing drinking water outside the town are not protected. Water stagnates in the pond adjoining and there are other obvious sources of contamination. | 11 | Rs. 191, Rs. 455 and Rs. 158 were spent on drainage, water supply and repairs to latrines respectively. | |
| 12 | Palwal | ... | 11,227 | 44-80 | The wells are <i>pukka</i> and contain water of a fair quality; in some, however, there is a distinct smell of sulphuretted hydrogen probably owing to their not being cleaned thoroughly and periodically, and also to their being situated in localities where water stagnates and gets polluted. | 12 | Rs. 1,551 and Rs. 103 were spent on pavements and water-supply respectively. | |
| 13 | Farukhnagar | ... | 5,581 | 36-05 | Drinking water is obtained from wells, which are fairly well protected, but they are not as clean as they should be. | 13 | Rs. 401 were spent on drainage | |

STATEMENT No. XI—continued.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|----------------|-----------------------|---|--|--|---|---|
| | | | | | CHIEF SANITARY DEFECTS. | | |
| No. | District. | Name of Municipality. | Population according to census of 1891. | Total death-rates per 1,000 of population. | Water-supply. | Damage. | Remedial measures adopted. |
| 14 | GURGAON—concl. | Ferozpur ... | 6,849 | 34.02 | Water supply is obtained from wells, and not protected from pollution. | House sewage is to a certain extent removed by the conservancy establishment, but a great deal of it soaks into the ground in the immediate vicinity of the houses. | ... |
| 15 | | Sohna ... | 5,990 | 38.06 | Drinking water is obtained from wells near the upper end of the town. There are wells near some hot springs, but the water is brackish and warm. | The main bazar is metalled with <i>kachra</i> , the smaller streets are paved with stone, and the lanes are unpaved. The streets and lanes are sometimes flooded, and the surrounding country rendered muddy by the undue obstruction caused by a bridge to the flow of water in the adjacent streams. | Rs. 289 were spent on water-supply ... |
| 16 | | Hodal ... | 9,601 | 29.06 | Drinking water is obtained from wells, both inside and outside the town. The water in some of these is brackish. | The principal streets are metalled and have side drains. The lanes are unpaved and defective. Arrangements for the removal of sewage are defective. | Rs. 915 were spent on public works ... |
| 17 | DELHI. | Delhi ... | 189,648 | 33.08 | The Delhi Water-works Scheme was completed in 1893. | Many of the old underground drains, which become blocked frequently and at all times a frightful nuisance, still exist. All these require to be replaced by surface drains. There are no drains at all in Sahzi Mandi, Sadai Bazar and Fardes districts, and drains are urgently required. | An estimate amounting to Rs. 6,00,000 has been prepared by the Public Works Department for open drains to replace the old underground drains inside the city walls. Out of this sum Rs. 23,000 has been spent by the Public Works Department, and there is no more money now to spend. To provide funds for repayment of principal and interest of the loan of 6 lakhs the Committee has sent up proposals for (1) fixing carts kept within municipal limits, (2) levying toll on carts coming into municipal limits, but the matter is still pending with Government. When these proposals are sanctioned, further action will be taken about the loan required. About the suburban wards no project for drains has yet been made, it is probable we will require another 6 lakhs at least for drains in the suburban wards. |
| | | | | | | At present some of the sewage water in the suburban wards is collected in cesspools attached to each house and carried away in urine carts, but the whole is not removed for the want of sufficient carts. A requisition for more carts has been made to the Municipal Committee. Steps are being taken whenever reports are made to close <i>obars</i> , or to connect them with the drains. | |

| | | | | | | | |
|----|--------------|--------|-------|---|--|--|----|
| 18 | Sonepat .. | 12,611 | 20-42 | Sufficient and is obtained from wells outside the town for drinking and cooking purposes. The water from wells in the town is brackish and is used for other domestic purposes. | <p>A good drainage system is required. Night-soil is removed by sweepers to fields outside the town, where it is collected in heaps and sold annually. Only the main bazar and a few lanes have <i>galia</i> drains, but these are so badly constructed as to be almost useless.</p> <p>There is no system of house drainage. Most of the lanes are unpaved, and water used for domestic purposes is thrown into them, and stagnates there. Children use the lanes as latrines, and the town is in an unsanitary condition. The drains are not of proper section, nor laid to level, consequently the contaminated water which flows its way into them collects and stagnates.</p> <p>There is no drainage system, and one is required. The streets are unpaved and there are no side-drains. It is stated that the Agra Canal has obstructed the surface drainage of the country, and the land about the town becomes a flat-decayed and consequently unhealthy in the rains.</p> | <p>An estimate for the extension of the Delhi water-works has been sanctioned, but no funds have been provided as yet. Rs. 47,553 were spent in connection with the Delhi drainage works.</p> <p>Rs. 3,221, Rs. 39,262 and Rs. 181 were spent on drainage, water-supply and repairs to latrines, respectively.</p> <p>The Sonepat Municipal Committee have paved many streets within the last two years, and also built surface drains, but there is still a want of complete drainage.</p> <p>Rs. 296 were spent on pavement.</p> | 18 |
| 19 | Balabgarh .. | 4,471 | 32-41 | The water supply is obtained from wells, but it is not good. Good canal water is to be had two miles from the town. | <p>An estimate for Rs. 2,220 was prepared for constructing surface drains in the interior of the town of Balabgarh and sent to the Executive Engineer, who returned it suggesting that a complete scheme of drainage should be prepared for the town.</p> | <p>Rs. 105 were spent on drainage.</p> <p>Rs. 229 were spent on drainage.</p> | 19 |
| 20 | Faridabad .. | 5,929 | 88-92 | Water brackish in many wells .. | <p>Some <i>galia</i> drains exist, but more are required, and should be on a better slope to ensure their being self-cleansing. Many of the lanes are unpaved, and suitable places for depositing night-soil should be selected, as at present it is thrown in heaps just outside the town and is dangerous to health.</p> | <p>Rs. 165 were spent on pavements and drainage respectively.</p> | 20 |
| 21 | Karnal .. | 21,530 | 42-81 | .. .. | <p>Street drains are flushed into main drains which discharge into the old canal, but the outlet channel runs round part of the city as a <i>khud</i> drain before emptying itself into the canal.</p> <p>A certain amount of filth finds its way into the drains.</p> <p>The small drains are cleaned daily by <i>barsat</i>.</p> <p>The main drains, which at present are never quite clean and free from smell, might be flushed with canal water. The night-soil is thrown into a compound made for the purpose outside the city, and is used as manure. Street rubbish is removed to waste land and sold to <i>zaminidars</i>. The drains are of good brickwork.</p> | <p>Rs. 183 and Rs. 125 were spent on pavements and drainage respectively.</p> | 21 |
| 22 | Kaithal .. | 15,768 | 40-05 | ..... | <p>The drains are both public and private latrines, but the drains are used as urinals. The surface drains are also fouled by some of the contents of latrines emptying into them. The drains discharge into fields near the town wall, and the night-soil and street <i>dalas</i> are deposited in eight enclosures about 200 yards from the city.</p> | <p>N7</p> | 22 |
| 23 | Panipat .. | 27,547 | 36-86 | .. .. | <p>The drains are of good brickwork, and discharge into the Ganda Nullah, with the exception of the main drain from the Rama Darwaza, which empties itself into a pond 300 yards from the city. The drains are not flushed. A smell of urine is noticed everywhere.</p> <p>Night-soil and street refuse are removed in baskets and bags and deposited on waste land from 400 to 1,000 yards outside the city.</p> | <p>Rs. 100 and Rs. 115 were spent on pavements and water supply respectively.</p> | 23 |

STATEMENT No. XI—continued.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
|---|---|-----------------------|---|---|--|---|--|---|---|--|----|
| No. | District. | Name of Municipality. | Population according to census of 1891. | Total death-rate per 1,000 of population. | CHIEF SANITARY DEFECTS. | Remedial measures adopted. | | | | | |
| 24 | | Lādwa ... | 4,011 | 29.92 | <table><tr><th>Water-supply.</th><th>Drainage</th></tr><tr><td>There are 23 wells, all belonging to the Municipality. Five of these contain good drinking water; the rest are slightly brackish. They are seldom cleaned. There are also tanks and ponds for bathing purposes.</td><td>There are no public latrines, and although there are some house latrines, fields, adjoining the town, are chiefly used, and are in a filthy state. The drains are open and constructed of good brickwork. They discharge into tanks and ponds, the overflow from which passes into the Rashi nullah. The night-soil and street refuse are removed to fields and waste land. The former is used for cultivation, the latter for brick-burning.</td></tr></table> | Water-supply. | Drainage | There are 23 wells, all belonging to the Municipality. Five of these contain good drinking water; the rest are slightly brackish. They are seldom cleaned. There are also tanks and ponds for bathing purposes. | There are no public latrines, and although there are some house latrines, fields, adjoining the town, are chiefly used, and are in a filthy state. The drains are open and constructed of good brickwork. They discharge into tanks and ponds, the overflow from which passes into the Rashi nullah. The night-soil and street refuse are removed to fields and waste land. The former is used for cultivation, the latter for brick-burning. | A sum of Rs. 921 were spent in completing excavation of outfall drain in connection with the Lādwa drainage scheme. Rs. 3,189 and Rs. 155 were spent on drainage and water supply, respectively. | 24 |
| Water-supply. | Drainage | | | | | | | | | | |
| There are 23 wells, all belonging to the Municipality. Five of these contain good drinking water; the rest are slightly brackish. They are seldom cleaned. There are also tanks and ponds for bathing purposes. | There are no public latrines, and although there are some house latrines, fields, adjoining the town, are chiefly used, and are in a filthy state. The drains are open and constructed of good brickwork. They discharge into tanks and ponds, the overflow from which passes into the Rashi nullah. The night-soil and street refuse are removed to fields and waste land. The former is used for cultivation, the latter for brick-burning. | | | | | | | | | | |
| 25 | | Shahabad ... | 11,473 | 22.57 | Drinking water sufficient and obtained from wells, but these are seldom cleaned. Some of the wells are private property, the others municipal. There are a few ponds and tanks. | There are only house latrines. The soil is removed by sweepers in baskets and on donkeys. It is deposited on waste lands, and used as manure. The drains, which are good, are open and discharge into low land, tanks and ponds. They are not contaminated by house sewage, and are cleaned out by <i>bidis</i> . The street refuse is removed to waste lands and sold for manure by the municipality. | Rs. 104 were spent on drainage ... | 25 | | | |
| 26 | KARNAL—concd. | Thānesar ... | 6,111 | 22.91 | Drinking water is obtained from wells and is sufficient and apparently fairly wholesome. Most of the wells are private property. All the wells, public and private, are neglected and seldom cleaned out. Tanks and ponds are used for bathing, &c. | There are only house latrines, night-soil and street rubbish collected in baskets and thrown on fields and waste land. Drains are boarded over by shopkeepers and house owners, who claim the frontage, although the municipality dispute their claim. The drains are out of repair, and are clogged in many places. The shopkeepers offer to pay half the cost of constructing new surface drains parallel to the existing ones. The present drains are used as urinals and are never cleaned; they discharge into tanks, ponds and nullahs. | | 26 | | | |
| 27 | | Umballa ... | 26,856 | 27.14 | Water-supply scheme completed in 1895 ... | Drainage very defective, waste water flows into dirty tanks which cannot be emptied or cleaned or a flow into the lanes surrounding the town which are in wet weather absolutely impassable. | A drainage scheme is being prepared by the Executive Engineer. Rs. 125 and Rs. 8,166 were spent on drainage and water-supply respectively. | 27 | | | |
| 28 | UMBALLA. | Jagādhri ... | 13,029 | 28.40 | Water supply liable to pollution ... | Drainage and cleaning defective ... | | 28 | | | |
| 29 | | Burya ... | 6,809 | 26.73 | Ditto | Drainage defective ... | | 29 | | | |
| 30 | | Sadhaura ... | 10,445 | 23.93 | Ditto | Drainage very defective, cleaning arrangements unsatisfactory. | | 30 | | | |
| 31 | | Rāpar ... | 8,693 | 21.17 | Water supply good | Natural drainage good. The public latrines are scarcely used, cleaning arrangements very irregular. | | 31 | | | |

| 32 | SIMLA. | Simla | 13,279 | 26-66 | The water supply is insufficient | .. | The sewage collecting tanks are too few in number and night-soil, &c., have to be carried too far on men's heads. The bazar is very much overcrowded. | 32 | The whole scheme has recently been considered by the Simla Extension Committee, and proposals involving large expenditure submitted. Rs. 11,499, Rs. 25,946, Rs. 19,588 and Rs. 1,917 were spent respectively on drainage, water-supply, construction of, and repairs to, latrines. |
|----|-------------|-----------------|--------|-------|---|----|---|----|--|
| 33 | KANGRA. | Kangra | 5,234 | 32-29 | The water supply is obtained from wells and <i>bādis</i> not protected from pollution. | .. | .. | 33 | .... |
| 34 | | Dharmasala | 2,778 | 37-08 | The drinking water is obtained from 20 <i>lāols</i> or springs which are liable to contamination, that for other purposes from three <i>kats</i> or small aqueducts, which are also contaminated. | .. | ..... | 34 | The proposed scheme of water supply by iron pipes for the lower ward of the station is under contemplation. The scheme will be carried out as soon as funds are available. |
| 35 | | Nánpur | 4,837 | 38-86 | Water is obtained from 212 wells and 10 tanks. The wells only supply water during the rains. The tanks are principally used. They are liable to pollution and sometimes run dry, thus obliging the inhabitants to get water from a tributary of the Chakki stream, a considerable distance off. | .. | ..... | 35 | There is a proposal to bring good drinking water from a spring called <i>bāol</i> of Khevalnagar, suburb of Nánpur town, through iron pipes into the town. The work has been estimated to cost Rs. 3,000. The Committee thinks of obtaining a loan from Government. |
| 36 | | Hoshiarpur | 17,546 | 34-71 | Several of the wells are not protected with suitable copings. | .. | The drainage system is not all complete yet, but is being gradually extended year by year as funds are available. | 36 | New drains of proper form are made every year in place of old improper drains. The owners of fields around the city are served with notices and are prosecuted. Flugs have been put up in the <i>cho</i> to make the site for people to go beyond these for purposes of nature. The low places around the city and polluting water supply are being filled up as far as funds allow. The Bahadurpur <i>katcha</i> drain collects outside the town and the sewage is used for fields all the year round except in rainy season, when it gives offensive smell. If funds allow this will be done into the <i>cho</i> . |
| 37 | HOSHIARPUR. | Khánpur | 3,553 | 40-25 | Ditto | .. | All the streets have open masonry drains which discharge into the adjacent stream. Sweepers and <i>bhisets</i> are employed for the removal of sewage. The sewage system appears to be efficient. | 37 | A proposal is under consideration for constructing an embankment to protect the town from being flooded during the rains. Rs. 211 and Rs. 522 were spent on drainage and water supply respectively. |
| 38 | | Harána | 7,066 | 24-91 | Several of the wells are not protected with suitable copings. | .. | ..... | 38 | Rs. 2,048 were spent on pavements. |
| 39 | | Garhdiwála | 4,045 | 31-80 | Ditto | .. | ..... | 39 | Wells were cleaned and the surroundings kept clean as far as funds allowed. |
| 40 | | Dasúya | 7,047 | 30-65 | Ditto | .. | Some of the drains are <i>katcha</i> and some <i>pakka</i> . They are cleaned by sweepers and <i>bhisets</i> . The sewage and drainage are led outside the town, but the arrangements are defective and stand greatly in need of improvement. | 40 | The establishment was made to work this year and the general cleanliness was reported better. |
| 41 | | Tánda and Urmor | 11,632 | 34-13 | Ditto | .. | There are drains, both <i>katcha</i> and <i>pakka</i> , which fall into three large masonry drains, the sewage from which is discharged into an adjacent nullah. Sweepers and <i>bhisets</i> clean the drains. | 41 | Wells cleaned and drains were kept clean as far as they could be done. |
| 42 | | Máni | 6,649 | 24-97 | Ditto | .. | The sewage system and sanitary arrangements generally are bad, and stand in great need of improvement. | 42 | Wells cleaned and the establishment made to work properly. |

STATEMENT No. XI—continued.

| No. | District. | Name of Municipality. | Population according to census of 1891. | Total death-rates per 1,000 of population. | Water supply. | Drainage. | Remedial measures adopted. | N. |
|-----|-----------------------|-----------------------|---|--|--|---|---|----|
| | | | | | | | | |
| 43 | Hoshiarpur—continued. | Mukerian .. | 3,977 | 39.98 | Water-supply sufficient. Wells seldom cleaned. | As above for Tinda except that about half the tanks discharge into one large masonry drain which empties itself into a tank just outside the town, while the sewage of the other half of the drains is deposited outside the town. | .. | 43 |
| 44 | | Una .. | 4,438 | 31.45 | Water-supply efficient. There are 16 wells, which are seldom cleaned. | .. | .. | 44 |
| 45 | | Anandpur .. | 5,100 | 27.84 | Water-supply efficient. There are 50 wells, which are seldom cleaned. | .. | .. | 45 |
| 46 | Jullundur. | Jullundur .. | 50,375 | 31.94 | .. | The drains inside the town are defective. An extra-mural drain has been recently constructed. It carries off most of the sewage of the town and is flushed by water from a well. The remainder of the sewage is carried into depressions around the town. | Rs. 740, Rs. 1,086, Rs. 982 and Rs. 229 were spent respectively on pavements, drainage, water supply and repairs to latrines. | 46 |
| 47 | | Alawalpur .. | 4,380 | 18.95 | Drinking water obtained from wells. | The street drains are in fair order, but sewage accumulates in fields and low-lying grounds. | .. | 47 |
| 48 | | Kartarpur .. | 10,441 | 28.06 | .. | The drainage system requires improvements, the land near the town being badly contaminated by sewage. | Rs. 500 were spent on drainage. | 48 |
| 49 | | Bungah .. | 5,010 | 46.31 | .. | The sewage of the town (with the exception of that of the western portion, which drains into a large <i>kutcha</i> tank) is conveyed by recently constructed drains and deposited some distance from the town. | .. | 49 |
| 50 | | Rádon .. | 10,067 | 30.47 | Ditto. There are 107 wells and is sufficient. | The drains are fairly well flushed but badly constructed. The town is on an elevation, which is an advantage, as sewage near easily drains off. | .. | 50 |
| 51 | | Navashahr .. | 5,601 | 32.14 | Contaminated by a <i>puir</i> near the town. | The sewage is deposited on low-lying ground around the town: the drains are flushed by <i>blasts</i> , but they are badly constructed and out of repair. | .. | 51 |
| 52 | | Phallour .. | 6,697 | 31.81 | .. | The drains inside the town are flushed by <i>blasts</i> and discharge into the river. The drainage system is incomplete, but as far as it goes efficient. | .. | 52 |
| 53 | | Nármahal .. | 8,520 | 33.69 | From wells. | The drains are flushed by <i>blasts</i> and the sewage is emptied into a large <i>kutcha</i> tank just outside the town. | Rs. 101 were spent on pavements. | 53 |
| 54 | | Nakodar .. | 9,740 | 22.90 | .. | The drains are flushed by <i>blasts</i> , but the sewage is allowed to spread over fields and low-lying grounds. | .. | 54 |
| 55 | | Ludhiána .. | 46,024 | 38.72 | The water is obtained from wells, and is, as a rule, sweet. But the water in 15 of the wells is brackish. Water-supply scheme under contemplation. | A depression near Lakkar Mandi is being filled up. Some of the streets in the town still need improved drains and better paving. No drains to take away waste water from wells. | Three of the flushing wells, connected with new drainage are being provided with better water lifts. Wooden <i>takht poshs</i> and temporary coverings have been removed off the drains and feeders in Chandra Bazar, and future encroachments discontinued. Courtyard of Kesara- | 55 |

| | | | | | | | | |
|----|--------------|-----|--------|-------|--|---|---|-----|
| 56 | Jagrón .. | ... | 18,116 | 20-31 | Water-supply sufficient and good, and obtained from wells, but the water in five of the wells is brackish. | There are several large drains and gutters that are bridged over and form floors of shops and houses. Drains are defective and carry water into large <i>katcha</i> tanks around the town. Several streets unprovided with pavings and drains become heaped with slush in rains. | Janj has been paved and its water-supply well greatly improved. System of street latrines discouraged. New scheme for carrying away night-soil and sweepings has been initiated. Go-downs made. Preliminaries for water-works project being experimented. Rs. 627, Rs. 3,194, Rs. 161 and Rs. 705 were spent respectively on pavements, drainage, water supply and construction of latrines. Plans and estimates have been prepared for improvement and extension of drainage system. Night-soil and scavenging are removed by donkeys, as carts are too big for narrow streets. Wells were cleaned and most of them disinfected. Some drains and pavements were repaired. The old depressions inside the towns were drained away and filled up. Steps have been taken to gradually fill up one of the large <i>katcha</i> tanks behind the dispensary. Rs. 846, Rs. 272 and Rs. 320 were spent on pavements, drainage and water-supply respectively. A drain was built at the foot of the enclosure wall on the northern side for sewage and rain water. The drain on the eastern side has been carried to an adjacent depression. More than 200 feet of the wall has been knocked down to provide passage space to the new dispensary now in course of construction. It has given a lung to the city. The main bazar is being repaired with <i>kauker</i> . Rs. 1,401 were spent on drainage. | 57 |
| 57 | Ráikot .. | ... | 9,381 | 31-02 | Water-supply good and sufficient and obtained from 61 wells. Parapets defective. | The drainage is of an old type. Several streets are without pavements. There is no regular system for flushing the drains. The flood water runs into large depressions which encircle the town all round, and give it the appearance of an island after heavy rains. | The extended outfall has improved the drainage, which is flushed freely by a rapid flow from a high tank. This town's sanitation is satisfactory. Rs. 1,928 were spent on drainage. | 58 |
| 58 | Khanna .. | ... | 3,877 | 32-24 | ..... | There are no public latrines. Fields are used by both sexes; one of the newly extended outfalls empties itself into a <i>katcha</i> tank still used by people for ablation and washing purposes. At present sewage is wasted. | Nothing particular has been done. Wells were cleaned and had one disinfected. Wells keep dirty all round. Sewage finds its way into sandy tracts outside and close by and is there absorbed. Rs. 324, Rs. 763 and Rs. 123 were spent respectively on pavements, drainage and water supply. | 59 |
| 59 | Máchiwára .. | ... | 5,340 | 33-33 | Water-supply good and sufficient. Some wells brackish. | This town is on a water-logged area, being on the old bed of the Satlej river which has further been saturated by percolation from main line of Sirhind Canal. No proper slaughter-house. Heaps of dung and filth are thrown right up to the foot of the town. Pavements are broken. Water is thrown all over the streets chiefly by <i>hattedis</i> . Drains very shallow and defective. No public latrines. | The plans and estimates to remedy the present defective drainage system of the municipalities of Ferozpur, Fazilka and Muktsar are under consideration of the Public Works Department. | 60 |
| 60 | Ferozpur .. | ... | 25,387 | 28-14 | The water-supply is solely from wells which are ill-situated and in many cases unprotected. | The drains are for the most part flushed by water from 2 wells in the city, others are cleaned by <i>bhisdis</i> . The drains are, however, defective and inefficient. | ... | 61 |
| 61 | Zíra .. | ... | 4,356 | 28-01 | ..... | A <i>bhisdi</i> and a sweeper are appointed to clean the drains daily. | ... | 62 |
| 62 | Nakhu .. | ... | 1,619 | 22-85 | Wells subject to pollution .. | Ditto | ..... | 63 |
| 63 | Dharmkot .. | ... | 6,725 | 29-59 | ..... | Ditto | ..... | 64 |
| 64 | Muktsar .. | ... | 5,271 | 20-68 | The supply of good drinking water is not sufficient and tank water is often used for drinking purposes, which from a sanitary point of view is most objectionable. | The sewage drains are cleaned occasionally by <i>bhisdis</i> and sweepers. The rain water charged with impurities from the street drains runs into a large <i>pakka</i> tank and stagnates there, rendering the place unhealthy. | Drainage scheme under consideration .. | 65 |
| 65 | Fázilka .. | ... | 7,568 | 21-55 | Wells subject to pollution .. | The drains are cleaned by <i>bhisdis</i> and sweepers | Ditto | ... |

STATEMENT No. XI—continued.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
|-----|-------------|-----------------------|---|--|---|---|--|----|
| No. | District. | Name of Municipality. | Population according to Census of 1891. | Total death-rates per 1,000 of population. | CHIEF SANITARY DEFECTS. | Remedial measures adopted | | |
| 66 | MOOLTAN. | Mooltan ... | 64,265 | 29.44 | Water-supply. There are about 400 wells in the city and about 300 in the suburbs from which the people draw water for domestic purposes. The Hindús go out to bathe in the Wali Muhammad Canal in the inundation season and to the wells around the city in the cold weather. Amongst the Muhammadans the people bathe in their own premises with water in small quantities drawn from the wells adjacent to their houses. The supply of water from wells is abundant, but after analysis has been pronounced impure by contamination with the flow of the subsoil strata. | Drainage. About two-thirds of the city is drained by an underground covered sewer and another short open one discharging into small hollows just outside the city walls. There is also surface drainage for the remaining portion of the city flushed by wells and <i>dhickás</i> , the overflow draining into the same hollow. The system is most defective, as the sewage is discharged into hollows within 100 feet of the city walls, and the system having been in force for over 30 or 40 years, the whole area of the land is converted into bog. Fortunately, these hollows are always under cultivation, and this must be the cause of counteracting and destroying the deleterious effects from such accumulations of fetid matter so close to the city. After rain these hollows get filled with storm-water from the city and suburbs, sometimes to overflowing. Short lengths of the side gutters of streets in the city are out of train by subsidence during heavy rains in the past and current years, and have left pools here and there which prevent the water running clean off. | A scheme for supplying water from wells sunk near the Idgah is under consideration. The preliminary project of the drainage of the Mooltan city is in hand. Rs 1,081 was incurred on the preliminary survey of the city and its suburbs. Rs. 11,373, Rs 5,738, Rs. 10,225 and Rs 149 were spent respectively on pavements, drainage, water-supply and repairs to latrines. | 66 |
| 67 | | Kahror ... | 5,498 | 13.88 | From drinking wells ... | Drains need repairs. North and south drains end in cess-pools just outside town. | ..... | 67 |
| 68 | | Shujabad ... | 6,322 | 30.97 | | Drains need repairs. Drains end just outside town in a cess-pool. Liable to floods from Sullej. | ..... | 68 |
| 69 | | Jalálpur ... | 8,884 | 40.94 |  | ..... | ..... | 69 |
| 70 | | Talamba .. | 2,792 | 17.19 |  | ..... | ..... | 70 |
| 71 | | Duniapur ... | 2,101 | 34.27 | ..... | ..... | ..... | 71 |
| 72 | | JHANG. | Jhang ... | 8,476 | 38.23 | Liable to flooding from the Chenáb, but to a less extent than in the case of Maghiána. | ..... | 72 |
| 73 | Maghiána... | | 13,866 | 42.33 | The low ground on the north-west much affected by floods from the Chenáb. | ..... | 73 | |
| 74 | Chinfol ... | | 13,476 | 42.15 | One large hollow outside the town and drainage water from the east collects there. Some drains still remain to be built. | Drains will be built as funds permit | ... | 74 |

| | | | | | | | | | | | |
|----|------------|---------|-------|--|--|--|--|--|--|---|----|
| 75 | Montgomery | 5,159 | 17-25 | | | | | | The surroundings are not locked after. <i>Pukka</i> drains are required for the town. | No remedial measures completed up to the present. Rs. 175 and Rs. 325 respectively were spent on drainage and water-supply. | 75 |
| 76 | Kamalia | 7,490 | 24-97 | | | | | | The surroundings are very dirty and require attention ... | No remedial measures completed up to the present. Rs. 464 were spent on water supply. | 76 |
| 77 | Pakpattan | 6,522 | 31-74 | | | | | | The latrines and slaughter-house require proper attention ... | No remedial measures completed up to the present | 77 |
| 78 | Lahore | 159,597 | 34-17 | | | | | | The natural drainage is fair. There is no swampland in the town. The sewerage drains in the by-lanes in the city and in Anarkali are of an obsolete pattern and are broken and with insufficient fall. The night-soil and sweepings are removed by cultivators' carts. | The new drainage works of the city and Anarkali are in hand and will probably be completed during the year. A project for the extension and improvement of the water-supply system has been sanctioned by Government and will be put in hand as soon as sanction has been received to the loan applied for. A scheme for a conservancy tramway, which will supersede existing conservancy arrangements, is under the consideration of Government. | 78 |
| 79 | Sharapur | 4,924 | 28-84 | | | | | | The streets and drains are cleaned as usual by the conservancy staff. | ..... | 79 |
| 80 | Ohánán | 10,389 | 45-56 | | | | | | The system of drainage defective ... | A drainage scheme for the Ohánán Municipality is in hand. The map of the town has been prepared and levels are being taken under the direction of the Executive Engineer. | 80 |
| 81 | Khudán | 2,921 | 32-52 | | | | | | The street drains require repairing | ..... | 81 |
| 82 | Kasur | 20,290 | 30-90 | | | | | | Drainage system defective ... | The Kasur Municipality has proposed the building of a drain outside the Pulwán Gate, and the plan and estimate are under preparation. As soon as they are approved by the Executive Engineer the work will be put in hand. | 82 |
| 83 | Khamkarn | 5,935 | 31-34 | | | | | | Drains require repairing | The Khamkarn Municipality have proposed the construction of drains in their town, and plan and estimate are under preparation. The whole work is estimated to cost about Rs. 1,500. | 83 |
| 84 | Patti | 7,495 | 32-29 |  |  |  |  |  | ..... | Orders have been lately issued for the taking of levels in Patti with a view to the preparation of a drainage scheme at the expense of the Municipal Funds. | 84 |

STATEMENT No. XI—continued.

| 1 | 2 | 3 | 4 | 5 | 6 | | 7 | 8 |
|-----|------------|-----------------------|---|--|------------------------------------|--|--|-----|
| No. | District. | Name of Municipality. | Population according to Census of 1891. | Total death-rates per 1,000 of population. | CHIEF SANITARY DEFECTS. | | | No. |
| | | | | | Water-supply. | Drainage. | Remedial measures adopted. | |
| 85 | AMRITSAR. | Amritsar ... | 185,401 | 40.38 | The water-supply is from wells ... | The system in force is flushing by canal water outside and by manual labour inside the city. Storm-water is carried off through open channels specially constructed by Government and the Municipality. The system of surface drains for sewage is the one best suited to Amritsar, and the system of <i>katcha</i> open channels for storm drainage (extra-mural) has so far worked well. | The water-supply is capable of great improvement, and a scheme is now under the consideration of Government. Rs. 1,971, Rs. 5,773, Rs. 2,472 and Rs. 253 were respectively spent on pavements, drainage, water-supply and repairs to latrines. | 85 |
| 86 | | Majitha ... | 6,417 | 29.30 | ... | ... | A project for draining the town of Majitha is under consideration of the Public Works Department. | 86 |
| 87 | | Jandiála ... | 7,732 | 32.98 | From wells ... | The sewage and drainage of these towns are disposed of through open masonry drains. The drainage of storm-water is not dealt with. | The drainage scheme of the towns of Tarn Tārān and Jandiála is under consideration, and will be carried out as funds will permit. | 87 |
| 88 | | Tarn Tārān ... | 3,900 | 31.08 | ... | ... | ... | 88 |
| 89 | GURDASPUR. | Gurdāspur ... | 5,159 | 35.34 | ... | Drainage lies low ... | Rs. 142 were spent on drainage ... | 89 |
| 90 | | Dinaagar ... | 5,454 | 40.34 | ... | No drains remain to be made <i>pakka</i> . The sewage is carried away by sweepers; the system is efficient. | Rs. 705 were spent on drainage ... | 90 |
| 91 | | Kalanour ... | 5,286 | 32.16 | ... | Land much irrigated all around ... | Rs. 153 were spent on drainage ... | 91 |
| 92 | | Pathankot ... | 4,749 | 47.17 | ... | Half the drains have been completed and half remain to be done. The sewage is removed on donkeys, and also carried away by sweepers; the system is efficient. | Rs. 182 and Rs. 264 were spent respectively on pavements and drainage. | 92 |
| 93 | GURDASPUR. | Sujānpur ... | 5,796 | 29.33 | From wells ... | ... | Rs. 219 and Rs. 115 were spent on pavements and drainage respectively. | 93 |
| 94 | | Dalhousie ... | 807 | 52.04 | ... | There are a number of excavations full of dirty water on the south and east of the town. The sewage is removed out in hand carts by sweepers; the system is efficient. | Rs. 1,170 were spent on water supply ... | 94 |
| 95 | | Batāla ... | 27,223 | 29.97 | ... | ... | A commencement will be made this year of cleaning out the Kanūr nullah in order to prevent water-logging. Ultimately some of the depressions near the town will be drained into the nullah. The work to be undertaken on the nullah will cost over Rs. 6,000. Rs. 1,400 and Rs. 412 were respectively spent on pavements and water supply. | 95 |

| | | | | | | | |
|-----|------------------|--------|-------|--|--|---|-----|
| 96 | Srigobindpur | 4,359 | 35.33 | Well water brackish | Water has abrupst fall | Rs. 220 were spent on pavements | 96 |
| 97 | Dera Nānak | 5,750 | 29.57 | From well | The drainage in the eastern part of the city is not good. The sewage is removed on donkeys by contractors; the system is efficient. | Rs. 500 were spent on water supply | 97 |
| 98 | Siālkot | 33,065 | 44.13 | Very few public wells now remain unprotected by parapets and platforms. | In some of the <i>mohallas</i> the old pattern brick drains of rectangular shape set in mud, or a slight depression in the centre of the pavement, for the drainage to run down still exist. | A scheme for the supply of water for the town and cantonment of Siālkot has been under consideration for some years in the Public Works Department. As far as funds will allow the defective drainage is being replaced by properly constructed drains of conoid bricks of semi-circular shape such as have been made in most streets of the town in recent years. All the wells will be put into a condition to prevent the spill water running into them and to protect them from pollution | 98 |
| 99 | Daska | 6,493 | 32.34 | | | | 99 |
| 100 | Jānki | 4,629 | 30.21 | | | | 100 |
| 101 | Kila Sobha Singh | 4,521 | 24.34 | | | | 101 |
| 102 | Paavār | 9,200 | 27.23 | In all these towns the water supply is obtained from wells, some of which still remain unprotected by parapets or platforms. | In many of the <i>mohallas</i> the streets are paved with small bricks with a slight depression in the centre or the old fashioned rectangular brick drains down which the sewage runs; there is doubtless a good deal of leakage in the subsoil before the sewage ultimately finds its way into the ponds and depressions in the vicinity of the towns. | | 102 |
| 103 | Zafarwāl | 5,536 | 25.88 | | | | 103 |
| 104 | Nārowāl | 4,896 | 29.81 | | | | 104 |
| 105 | Gujrat | 17,671 | 36.56 | | The main drain by the Grand Trunk Road is filled up with silt | Rs. 253, Rs. 268 and Rs. 517 were spent on pavements, drainage and water supply respectively | 105 |
| 106 | Jalālpur | 11,065 | 42.30 | Water supply is from wells | | | 106 |
| 107 | Kunjah | 5,474 | 31.24 | | After rains swamps are formed in the neighbourhood | Rs. 172 were spent on pavements | 107 |
| 108 | Dinga | 5,124 | 31.71 | | | Rs. 250 and Rs. 462 were spent on drainage and water supply respectively. | 108 |
| 109 | Gujranwāla | 25,892 | 24.93 | | The disposal of the sullage water is not satisfactory. | The scheme for the improvement of the sewerage of the Gujranwāla town has been partly carried out and is again under consideration with a view to further operations. Rs. 6,600, Rs. 1,507 and Rs. 714 were spent respectively on pavements, drainage and water supply | 109 |
| 110 | Wazirabad | 15,786 | 48.84 | Direct from wells, quality bad. Water supply scheme under consideration. | Streets and drains are cleaned by sweepers. Solids are removed outside the town on donkeys. Sullage is not utilized; drains are flushed by watermen. Sullage is removed towards Pakhū stream. Not satisfactory. | The Government have decided to remedy the drainage of the town with a view to allow the town to supply a pure water supply. Rs. 1,073, Rs. 611 and Rs. 318 were spent on pavements, drainage and water supply respectively. | 110 |

STATEMENT No. XI—continued.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----|-------------------|-----------------------|---|--|--------------------------|--|-----|
| No. | District. | Name of Municipality. | Population according to census of 1891. | Total death-rates per 1,000 of population. | CHIEF SANITARY DIRECTOR. | Remedial measures adopted. | % |
| | | | | | Water supply. | Drainage. | |
| 111 | GUJRANWALA—contd. | Eminabad | 5,841 | 39.89 | ..... | Sullage is not used; drains are only partly flushed by water-men. Not satisfactory. | 111 |
| 112 | | Kila Didar Singh, | 2,843 | 29.55 | ..... | Subsoil of neighbourhood damp | 112 |
| 113 | | Akálgarh | 4,262 | 23.70 | ..... | Neighbouring country liable to flooding | 113 |
| 114 | | Rām-nagar | 6,592 | 41.72 | ..... | Drains are cleaned by sweepers, who remove the solids on donkeys. Sullage is not utilized, drains are flushed by water-men. Sullage is removed towards Palkhu stream. Not satisfactory. | 114 |
| 115 | SHAHPUA. | Bhera | 17,428 | 20.78 | ..... | Drainage faulty, the outfall being close to the town, and ruin water lodges in depressed area surrounding the town. | 115 |
| 116 | | Shahpur | 6,337 | 25.56 | ..... | Drainage insufficient and cloggy. Wells foul. The Sadar station much the same and faulty in latrine arrangements, not only too few but too far to meet the wants of the Sadar bazar. | 116 |
| 117 | | Sāhiwāl | 9,210 | 31.49 | ..... | Drainage faulty. Surroundings very insanitary with stagnant tanks on the road side. Wells foul. | 117 |
| 118 | | Mian | 7,149 | 30.63 | ..... | Drainage faulty and cloggy. Manure in stocks just outside the town, houses in view. Streets narrow and dirty. | 118 |
| 119 | JHELM. | Khushāb | 9,832 | 21.16 | ..... | Tops of houses used as latrine and uncared for | 119 |
| 120 | | Jhelum | 9,711 | 32.54 | ..... | Connection of the large sewer which drains part of the north end of the town with the river and making it entirely of masonry. At present it is only <i>paṭṭa</i> and much too wide for a short distance from the town. The great fault in the internal sanitation of the town is the failure of house owners to connect their house drains with the street drains. | 120 |
| 121 | | Pind Dādan Khan, | 15,055 | 34.94 | ..... | The existing arrangements for water supply are defective as regards quantity and quality. | 121 |

| 122 | Rawalpindi | 38,334 | 37-90 | Water supply scheme completed in 1887 | ... | Drainage defective | ... | ... | ... | ... | In Rawalpindi Municipality a combined drainage scheme for city and cantonment at an estimated cost of Rs. 1,47,154 has been sanctioned, and an internal drainage scheme is under consideration. Rs. 350, Rs. 2,857 and Rs. 2,105 were spent respectively on pavements, drainage and water supply | 122 |
|-----|------------|--------|-------|--|---------|---|-------|-------|-------|-------|---|-----|
| 123 | Murree | 1,459 | 32-90 | Ditto | in 1894 | ..... | ..... | ..... | ..... | ..... | Separate drainage channels should be constructed for the more thickly inhabited parts when funds are available. Rs. 9,499 were spent on water supply | 123 |
| 124 | Pindigheb | 8,462 | 24-34 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Rs. 250 were spent on water supply | 124 |
| 125 | Hazro | 9,261 | 27-43 | Wells liable to contamination | ... | No regular drains | ... | ... | ... | ... | An estimate for Rs. 6,325 has been sanctioned by the Punjab Government for the construction of a drainage scheme for Hazro, and the Committee has agreed to have the project of external drainage carried out by the Public Works Department. | 125 |
| 126 | Attock | 2,654 | 44-46 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | Rs. 388 and Rs. 1,180 were spent, respectively, on water supply and construction of latrines. | 126 |
| 127 | Abbottabad | 2,242 | 13-38 | Water supply good, but liable to pollution in catchment area. | ... | Sullage water brought down in masonry drain from town up to municipal limits, and then discharged into the Dhobi ghat nullah, where it soaks into the soil. | ... | ... | ... | ... | The work for the diversion of the town drainage at Abbottabad is in abeyance. Rs. 281 were spent on water supply | 127 |
| 128 | Nawashahr | 3,885 | 29-60 | Unknown; but like all open supplies must be liable to contamination. The Nam nullah flows close to the town, and it is the source of the water supply. | ... | Petty rural municipality. No latrines | ... | ... | ... | ... | To build latrines in petty rural municipal towns of Baffa and Nawashahr will be useless, as the people resort to the fields | 128 |
| 129 | Baffa | 7,437 | 33-21 | Water supply from Siran river, good but liable to contamination. | ... | Ditto | ..... | ..... | ..... | ..... | ..... | 129 |
| 130 | Haripur | 5,419 | 24-17 | A pipe supply from springs at Makhet-ki-Bagh about 7 miles distant. A very good supply. | ... | Beyond the ordinary occasional nuisances of the cleansing department, there are none of particular gravity. | ... | ... | ... | ... | Rs. 2,298 were spent on water supply | 130 |
| 131 | Peshawar | 63,079 | 29-53 | Water supply project completed in 1892 | ... | Drainage project completed in 1888 | ... | ... | ... | ... | The city drains are being gradually re-made. The city is supplied with pure drinking water, and house connections are in progress. A considerable improvement has been effected during the last few years in these works. Rs. 1,842, Rs. 16,576, Rs. 9,278 and Rs. 243 were spent, respectively, on pavements, drainage, water supply and construction of latrines. | 131 |

RAWALPINDI.

HAZARA.

PESHAWAR.

STATEMENT No. XI—concluded.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
|-----|-------------------|-----------------------|---|--|---|---|--|-----|
| No. | District. | Name of Municipality. | Population according to census of 1891. | Total death-rates per 1,000 of population. | CHIEF SANITARY DEFECTS | Remedial measures adopted | No. | |
| | | | | | Water supply. | Drainage. | | |
| 132 | Kohat. | Kohat | 14,347 | 28.65 | Water supply good | Drainage efficient, and the city is very well supplied with <i>potable</i> surface and <i>large</i> drains. | The <i>potable</i> water supply, which was used for drinking and bathing purposes was improved at a cost of Rs. 1,252, so as to prevent the pollution of the wells by filth and dirty water, in which they were previously exposed. Rs. 1,867 and Rs. 2,716 respectively were spent on drainage and water supply. | 132 |
| 133 | Edwardesabad | Edwardesabad | 6,685 | 53.16 | | | Rs. 1,306, Rs. 562 and Rs. 3,627 were respectively spent on pavements, drainage and water supply respectively. | 133 |
| 134 | Iskhel | Iskhel | 7,600 | 25.79 | The wealthy get their drinking water from the Indus; canal water is used by others, and when the canal is dry water is obtained from 2 tanks. System inefficient | The drainage system is inefficient | Measures are being taken to improve the main drain | 134 |
| 135 | Kalabagh | Kalabagh | 6,702 | 38.79 | | There are no sew drains, and the streets are very steep. System is inefficient. | .. | 135 |
| 136 | Lakki | Lakki | 4,488 | 47.24 | Water in the wells is brackish; drinking water is obtained from the Gambilla river. | Streets and lanes are unpaved and undrained | .. | 136 |
| 137 | Dera Isma'il Khan | Dera Isma'il Khan | 21,573 | 53.86 | Drinking water is good and sufficient which is obtained from wells. | Town situated on nearly dead level ground with a very gentle slope towards the Indus. Subsoil water is 20 ft. from surface. The drainage is very unsatisfactory. The slope is too slight to carry away the water which collects and stagnates, and has to be removed in water carts | Measures are being taken to improve the sanitary defects in the town. A cart has been purchased to carry away muddy water at a cost of Rs. 132 | 137 |
| 138 | Kulachi | Kulachi | 9,447 | 17.78 | Drinking water is obtained from shallow pits dug in the bed of the Luni, in which the water is sweet but muddy. The water from wells inside the town is brackish. | The town is situated on the left bank of the Luni. Subsoil water is 30 feet below ground, and sewage far. The drainage of the town is far from satisfactory. Rain-water collects and stagnates in the streets and drains for days and weeks. | Rs. 826 and Rs. 143 were spent on pavements and latrines, respectively. | 138 |

ISMAIL KHAN.

| | | | | | | | | |
|-----|------------------|---------------------|--------|-------|--|--|---|-----|
| 139 | DERA | Shakkar ... | 5,210 | 43-38 | Drinking water obtained from wells; the water is clear, tasteless and wholesome. The wells have no proper fencing around them, and are seldom cleaned. | The town is built on the high bank of the Thal close to the Kachhi or riverain tract, which is annually flooded by the Indus. The natural drainage of the town is good. Subsoil about 80 feet from the surface. Sewage fair. | ..... | 140 |
| 140 | | Loiiah ... | 7,437 | 28-40 | Drinking water is obtained from wells, which is good and wholesome, but many of the wells have no parapets, and they are not regularly cleaned. | Only the main <i>bawár</i> has <i>pakka</i> flooring, but the <i>káchids</i> are <i>katcha</i> ones, and they have no proper drains. | ... | 141 |
| 141 | | Karor ... | 2,833 | 46-95 | Water is obtained from wells which is good and sufficient. Wells have no copings around them. | ..... | ... | 142 |
| 142 | | Dera Gházi Khan ... | 28,899 | 30-04 | Water-supply is obtained from 243 wells in the city. Water is contaminated with organic matter owing to crowded state of houses. The wells are annually cleaned out. There is no regular system of water-supply; the water is bad owing to the very high spring level. | Drainage very imperfect. | A scheme is before Government for sanction, for which the Municipal Committee has sanctioned a sum of Rs 20,000. Rs 378, Rs 154 and Rs. 103 were spent on drainage, water-supply and repairs to latrines, respectively. | 143 |
| 143 | DERA GHÁZI KHAN. | Jámpur ... | 5,815 | 31-81 | From wells, the water of which is good in quality. There is no regular system for water-supply. | The town is surrounded by land irrigated by inundation canals. Very little fall towards the Indus. Subsoil water about 27 feet from surface. There is no regular system of drainage. | Rs 469 were spent on pavements | 144 |
| 144 | | Dajal ... | 6,085 | 51-60 | Water-supply is from a tank filled at intervals by water from the Harrand hill stream. The water is of good quality. There is no regular system of water-supply. | There is good natural drainage into beds of hill streams. There is no regular system of drainage. | Rs. 107 were spent on water supply | 145 |
| 145 | | Rájanpur ... | 4,064 | 28-79 | Water-supply is from 38 wells, in 12 of which the water is bad. There is no regular system of water-supply. | The drainage is not good. Subsoil water is 22 feet from the surface. There is no regular system of drainage. | ... | 146 |
| 146 | | Kot Mithan ... | 3,624 | 23-73 | Water-supply is from 12 wells, some of which are sweet and others brackish. There is no regular system of water-supply. | There are no swamps. The subsoil water is 16 feet from the surface. There is no regular system of drainage. | ... | 147 |
| 147 | | Muzaffargarh ... | 3,068 | 34-34 | There is no regular system of water-supply. Water is obtained from wells. | There is no regular system of drainage, and the drainage is defective. | A scheme for improving the drainage of Muzaffargarh city is under consideration of the Public Works Department. Rs 624 were spent on pavements. | 148 |
| 148 | MUZAFFARGARH. | Khangarh ... | 3,505 | 34-24 | There is no regular system of water-supply, and is brackish. | There is no regular system of drainage. | Rs. 125 were spent on drainage | 149 |
| 149 | | Alipur ... | 2,552 | 33-31 | The water is obtained from wells, which is pretty clean. | Ditto | Rs 150 were spent on construction of latrines | 150 |
| 150 | | Khairpur ... | 2,424 | 50-74 | The water is obtained from wells. The wells are covered and protected. | Ditto | ... | |

APPENDIX A.

STATEMENT SHOWING BIRTHS AND DEATHS REGISTERED IN THE
SELECTED VILLAGES SITUATED ON THE WESTERN JAMNA
CANAL DURING THE YEAR 1898.

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STATEMENT SHOWING BIRTHS AND DEATHS REGISTERED IN THE SELECTED VILLAGES SITUATED ON THE WESTERN JAMNA CANAL DURING THE YEAR 1898.

[illegible]

APPENDIX A—continued.

| 1 | 2 | 3 | | | 4 | | | 5 | | | 6 | | | 7 | | | | | 8 | | | | | | | | | | 9 | | | | | | | | | | | | | |
|-----------------------|-------------------------|---|----------|--------|---------------------------------------|----------|--------|---------------------------------------|------------|--------|-------------------------------------|-------------------------------------|-----------------------------|-----------|-------------------|---------------------|----------|----------------------|--------|-----------------------|--------|------------------------|--------|------------------------|--------|------------------------|--------|-----|------------------------|--------|------------------------|--------|------------------------|--------|-------------------------|--------|----------|--------|----------|--------|----------|--------|
| No. | Names of villages. | POPULATION AC- CORDING TO CENSUS OF 1891. | | | TOTAL NUMBER OF BIRTHS REGISTERED. | | | TOTAL NUMBER OF DEATHS REGISTERED. | | | Birth-rate per mille of population. | Death-rate per mille of population. | CAUSES OF DEATH. | | | | | AGE AT DEATH. | | | | | | | | | | No. | | | | | | | | | | | | | | |
| | | Males. | Females. | Total. | Males. | Females. | Total. | Cholera. | Small-pox. | Fever. | | | Dysentery and diarrhoea. | Injuries. | All other causes. | Under 1 year. | | 1 and under 5. | | 5 and under 10. | | 10 and under 15. | | 15 and under 20. | | 20 and under 30. | | | 30 and under 40. | | 40 and under 50. | | 50 and under 60. | | 60 and up- wards. | | | | | | | |
| | | | | | | | | | | | | | | | | Males. | Females. | Total. | Males. | Females. | Males. | Females. | Males. | Females. | Males. | Females. | Males. | | Females. | Males. | Females. | Males. | Females. | Males. | Females. | Males. | Females. | Males. | Females. | Males. | Females. | Males. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | | | |
| Delhi District—concd. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Ratangarh .. | 2,068 | 1,770 | 3,838 | 115 | 71 | 186 | 79 | 67 | 146 | 45 | 88 | .. | .. | 128 | 2 | .. | 16 | 31 | 22 | 15 | 16 | 6 | 4 | 2 | 2 | 1 | 1 | 4 | 3 | 4 | 1 | 6 | 10 | 5 | 4 | 5 | 4 | .. | .. | | |
| 12 | Bhatgaon .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | |
| 13 | Bagra .. | 328 | 289 | 617 | 12 | 9 | 21 | 5 | 11 | 16 | 34 | 26 | .. | .. | 8 | .. | .. | 2 | 4 | .. | .. | 2 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | |
| 14 | Khizarpur Jat .. | 176 | 146 | 322 | 5 | 4 | 9 | 3 | 7 | 10 | 28 | 31 | .. | .. | 9 | .. | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | |
| 15 | Hula Heri .. | 381 | 333 | 714 | 18 | 17 | 35 | 9 | 5 | 14 | 40 | 20 | .. | .. | 3 | 8 | .. | 8 | 3 | 3 | 8 | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | |
| 16 | Barvasni .. | 913 | 773 | 1,686 | 40 | 38 | 78 | 24 | 22 | 46 | 46 | 27 | .. | .. | 31 | 3 | .. | 12 | 11 | 7 | 3 | 6 | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | |
| 17 | Garhi Brahminan .. | 267 | 234 | 501 | 13 | 6 | 19 | 14 | 8 | 22 | 38 | 44 | .. | .. | 10 | 6 | .. | 6 | 4 | 1 | 3 | 3 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | |
| 18 | Mahlana .. | 755 | 642 | 1,427 | 33 | 23 | 56 | 18 | 18 | 36 | 39 | 25 | .. | .. | 24 | 3 | .. | 7 | 2 | 6 | 9 | 4 | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | |
| 19 | Tihar Khurd .. | 300 | 263 | 563 | 10 | 11 | 21 | 6 | 1 | 7 | 37 | 12 | .. | .. | 1 | .. | .. | 3 | 3 | .. | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | |
| 20 | Hasanpur Tihar Kalán .. | 159 | 149 | 308 | 6 | 9 | 15 | 5 | 5 | 10 | 49 | 32 | .. | .. | 7 | .. | .. | 3 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | |
| 21 | Kakroi .. | 1,001 | 882 | 1,883 | 50 | 47 | 97 | 29 | 25 | 54 | 52 | 29 | .. | .. | 39 | 3 | .. | 12 | 10 | 7 | 8 | 4 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 22 | Bhadana .. | 530 | 479 | 1,009 | 24 | 28 | 52 | 15 | 13 | 28 | 52 | 28 | .. | .. | 20 | .. | .. | 8 | 4 | 3 | 2 | 2 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 23 | Kheri Daiya .. | 266 | 253 | 539 | 11 | 7 | 18 | 9 | 1 | 10 | 33 | 19 | .. | .. | 4 | .. | .. | 6 | 3 | 1 | 4 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 24 | Robat .. | 1,161 | 1,006 | 2,167 | 50 | 58 | 108 | 44 | 42 | 86 | 50 | 40 | .. | .. | 73 | 1 | .. | 12 | 6 | 11 | 12 | 8 | 2 | 2 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 25 | Jharaut .. | 327 | 255 | 582 | 13 | 12 | 25 | 6 | 14 | 20 | 43 | 31 | .. | .. | 15 | .. | .. | 5 | 4 | 3 | .. | 4 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 26 | Anandpur .. | 162 | 116 | 278 | 5 | 5 | 10 | 5 | 6 | 11 | 35 | 40 | .. | .. | 7 | .. | .. | 4 | 2 | .. | .. | 1 | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 27 | Pugthala .. | 971 | 857 | 1,828 | 40 | 24 | 64 | 27 | 29 | 56 | 85 | 31 | .. | .. | 46 | 1 | .. | 9 | 7 | 8 | 6 | 5 | 3 | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 28 | Thana Kalán .. | 966 | 909 | 1,875 | 35 | 43 | 78 | 20 | 32 | 52 | 42 | 25 | .. | .. | 49 | .. | .. | 3 | 5 | 11 | 6 | 11 | 2 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 29 | Mandawri .. | 436 | 353 | 789 | 19 | 31 | 50 | 5 | 15 | 20 | 63 | 25 | .. | .. | 13 | 1 | .. | 6 | 1 | 8 | .. | 2 | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| 30 | Jataula .. | 322 | 296 | 618 | 10 | 11 | 21 | 9 | 11 | 20 | 34 | 32 | .. | .. | 11 | 3 | .. | 6 | 3 | .. | 3 | 3 | 1 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |

APPENDIX A—concluded.

| No. | Names of villages. | 8 | | 4 | | 5 | | 6 | | 7 | | 8 | | | | | | | | | | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | POPULATION AC- CORDING TO CENSUS OF 1891. | | TOTAL NUMBER OF BIRTHS REGISTERED. | | TOTAL NUMBER OF DEATHS REGISTERED. | | Death-rate per mille of population. | | CAUSES OF DEATH. | | AGES AT DEATH. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Total. | | Total. | | Total. | | Birth-rate per mille of population. | | Dysentery and diarrhoea. | | Under 1 and under 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Males. | Females. | Males. | Females. | Males. | Females. | Males. | Females. | Small-pox. | Revers. | 10 and under 15 | 15 and under 20 | 20 and under 30 | 30 and under 40 | 40 and under 50 | 50 and under 60 | 60 and up- wards. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | 8 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Karnal District. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Karakwāli ... | 67 | 58 | 125 | 1 | ... | 1 | 1 | ... | ... | 8 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... 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APPEN

STATEMENT SHOWING THE INCOME AND EXPENDITURE OF MUNICI

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|----------------------|-------------------|---|----------------------------|-----------------------------|-------------|----------------------------|--------|--------------------|-----------------------|
| No | NAME OF DISTRICTS | Number of municipal towns in each district. | ASSETS. | | | Dis | | | |
| | | | Balance from previous year | Annual income for the year. | Total | Conservancy establishment. | Paving | Roads and bridges. | Drainage or sewerage. |
| | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Delhi Division. | | | | | | | | | |
| 1 | Hissar | 5 | Rs 11,445 | Rs 1,26,626 | Rs 1,38,071 | Rs 17,816 | Rs 852 | Rs 13,222 | Rs 470 |
| 2 | Rohtak | 5 | 22,001 | 68,524 | 90,525 | 6,266 | 1,200 | 2,657 | .. |
| 3 | Gurgaon | 6 | 53,736 | 95,913 | 1,49,649 | 8,987 | 2,466 | 12,073 | 614 |
| 4 | Delhi | 4 | 38,120 | 4,69,368 | 5,07,488 | 82,426 | 296 | 21,339 | 3,574 |
| 5 | Karnal | 6 | 24,750 | 1,02,965 | 1,27,715 | 12,550 | 663 | 2,903 | 3,498 |
| 6 | Umballa | 5 | 7,032 | 1,00,183 | 1,07,215 | 10,759 | | 4,679 | 180 |
| 7 | Simla | 1 | 64,202 | 3,45,620 | 4,09,822 | 34,754 | | 32,986 | 11,199 |
| Jullundur Division. | | | | | | | | | |
| 8 | Kangra | 3 | 3,542 | 24,203 | 27,745 | 3,430 | 352 | 1,340 | 5 |
| 9 | Hoshiarpur | 10 | 8,827 | 73,291 | 82,118 | 10,098 | 424 | 3,680 | 2,220 |
| 10 | Jullundur | 9 | 26,557 | 1,21,582 | 1,48,139 | 16,649 | 1,211 | 6,085 | 2,365 |
| 11 | Ludhiana | 5 | 20,937 | 1,38,783 | 1,59,720 | 13,400 | 1,836 | 3,917 | 6,647 |
| 12 | Ferozepore | 6 | 70,691 | 87,673 | 1,58,364 | 9,077 | 193 | 7,285 | 627 |
| Lahore Division. | | | | | | | | | |
| 13 | Multan | 6 | 74,082 | 1,97,662 | 2,71,744 | 23,715 | 11,393 | 16,507 | 5,849 |
| 14 | Ibraz | 2 | 18,263 | 66,817 | 85,080 | 8,741 | 700 | 2,474 | 263 |
| 15 | Montgomery | 3 | 6,158 | 31,084 | 37,242 | 3,082 | 88 | 24 | 181 |
| 16 | Lahore | 7 | 1,17,939 | 5,80,042 | 6,97,981 | 74,487 | 214 | 28,273 | 19,855 |
| 17 | Amritsar | 4 | 438,522 | 4,95,536 | 5,34,058 | 72,532 | 2,149 | 16,563 | 5,980 |
| 18 | Gurugram | 9 | 39,427 | 1,22,913 | 1,62,370 | 14,830 | 2,115 | 1,760 | 2,141 |
| Rawalpindi Division. | | | | | | | | | |
| 19 | Sialkot | 7 | 13,501 | 1,39,232 | 1,52,733 | 17,880 | 1,232 | 1,083 | 4,813 |
| 20 | Gujrat | 4 | 9,272 | 44,304 | 53,576 | 5,312 | 440 | 605 | 584 |
| 21 | Gujranwala | 6 | 38,120 | 1,19,860 | 1,57,989 | 16,728 | 7,892 | 1,093 | 2,349 |
| 22 | Shahpur | 5 | 8,986 | 57,238 | 66,224 | 7,200 | 1,263 | 149 | 370 |
| 23 | Jhelum | 2 | 14,213 | 59,290 | 73,503 | 7,029 | 331 | 1,233 | 262 |
| 24 | Rawalpindi | 5 | 111,076 | 2,88,738 | 3,99,744 | 44,122 | 350 | 9,243 | 2,942 |
| Peshawar Division. | | | | | | | | | |
| 25 | Hazara | 4 | 6,013 | 37,201 | 43,214 | 5,369 | .. | 340 | 37 |
| 26 | Peshawar | 7 | 31,035 | 2,04,694 | 2,35,729 | 21,211 | 1,842 | 1,825 | 16,578 |
| 27 | Kohat | 1 | 20,949 | 42,877 | 63,826 | 5,056 | | 832 | 1,867 |
| Derajat Division. | | | | | | | | | |
| 28 | Bannu | 4 | 31,523 | 68,278 | 99,801 | 9,580 | 1,306 | 266 | 562 |
| 29 | Dera Ismail Khan | 6 | 9,576 | 1,01,703 | 1,11,279 | 13,856 | 1,416 | 1,910 | 142 |
| 30 | Dera Ghazi Khan | 5 | 26,518 | 1,00,299 | 1,26,817 | 10,113 | 400 | 2,306 | 510 |
| 31 | Muzaffargarh | 4 | 24,432 | 28,168 | 52,600 | 3,722 | 690 | 633 | 204 |
| TOTAL | | 150 | 9,91,384 | 45,40,697 | 55,32,081 | 5,90,777 | 43,314 | 1,99,285 | 96,888 |

* The difference in the opening balance due to a mistake in the
† Difference in the opening balance in Amritsar district due to

DIX B.

PALITIES IN EACH DISTRICT OF THE PUNJAB DURING THE YEAR 1898.

| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|--|-------------------------|-----------------------------|-------------------------|----------------------------|-------------|--------------|----------|----------|---------------|----------------|--------------------|----|
| BURSEMENTS | | | | | | | | | | Total expended | Balance unexpended | No |
| Water-supply in- cluding cleaning and repairs of wells, tanks, &c. | Widening of streets. | Construction of latrines | Repairs of latrines. | Total sanitary charges. | Vaccination | Dispensaries | Police | Schools | Miscellaneous | | | |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | Rs. | |
| 5,334 | .. | | 380 | 38,074 | 1,715 | 13,042 | 25,940 | 21,700 | 27,250 | 1,28,087 | 9,984 | 1 |
| 260 | 5 | .. | 91 | 10,479 | 161 | 9,093 | 7,929 | 18,931 | 14,530 | 61,123 | 20,402 | 2 |
| 1,104 | . | | 461 | 25,705 | 113 | 11,466 | 16,195 | 21,641 | 20,190 | 1,04,910 | 44,739 | 3 |
| 39,305 | . | .. | 229 | 1,47,169 | 2,320 | 29,243 | 67,072 | 38,158 | 1,49,068 | 1,33,930 | 73,558 | 4 |
| 485 | ... | .. | 17 | 20,116 | 1,142 | 7,563 | 21,168 | 22,750 | 25,077 | 97,820 | 20,895 | 5 |
| 8,268 | . | .. | 148 | 24,034 | 652 | 14,611 | 12,933 | 19,441 | 23,119 | 91,793 | 12,422 | 6 |
| 27,738 | .. | 19,588 | 2,307 | 1,28,272 | 437 | 14,895 | 15,265 | 2,635 | 1,34,697 | 2,96,191 | 1,13,631 | 7 |
| 61 | .. | . | 10 | 5,198 | 361 | 6,422 | 1,472 | 1,695 | 6,459 | 24,607 | 3,138 | 8 |
| 524 | | 10 | 45 | 17,001 | 827 | 7,157 | 12,187 | 17,819 | 16,518 | 71,509 | 10,609 | 9 |
| 1,176 | 100 | . | 338 | 27,924 | 1,067 | 16,040 | 17,367 | 20,371 | 29,307 | 1,20,166 | 27,973 | 10 |
| 730 | 2 | 765 | 112 | 27,409 | 940 | 15,975 | 15,438 | 27,605 | 33,139 | 1,20,706 | 39,014 | 11 |
| 57 | 8 | | 13 | 17,260 | 911 | 13,189 | 11,416 | 19,221 | 32,924 | 94,924 | 63,440 | 12 |
| 10,859 | .. | | 419 | 68,742 | 953 | 17,962 | 39,738 | 25,758 | 55,375 | 2,08,528 | 63,216 | 13 |
| 122 | .. | | 192 | 12,492 | 306 | 13,160 | 8,285 | 19,956 | 9,284 | 62,573 | 22,507 | 14 |
| 847 | .. | 15 | 76 | 4,313 | 365 | 6,594 | 2,562 | 9,506 | 6,136 | 29,196 | 7,746 | 15 |
| 25,195 | .. | 114 | 519 | 1,48,657 | 2,369 | 26,476 | 60,610 | 21,019 | 3,23,972 | 5,83,142 | 1,14,839 | 16 |
| 2,481 | . | 37 | 253 | 99,995 | 1,185 | 38,455 | 57,988 | 68,181 | 2,04,553 | 4,70,955 | 63,103 | 17 |
| 2,510 | . | .. | 42 | 23,298 | 378 | 11,414 | 14,401 | 31,921 | 31,365 | 1,12,877 | 49,493 | 18 |
| 2,619 | .. | 383 | 72 | 28,082 | 473 | 11,570 | 21,078 | 24,531 | 19,580 | 1,35,314 | 17,419 | 19 |
| 1,155 | . | ... | 35 | 8,131 | 186 | 8,277 | 8,157 | 13,220 | 9,724 | 46,995 | 6,581 | 20 |
| 1,424 | ... | .. | 96 | 29,582 | 1,149 | 9,296 | 13,310 | 21,500 | 12,508 | 1,17,351 | 40,638 | 21 |
| 14 | . | .. | | 8,996 | 531 | 6,421 | 9,551 | 15,544 | 7,230 | 48,726 | 17,498 | 22 |
| 1,703 | .. | .. | 158 | 10,716 | 319 | 7,489 | 10,126 | 11,881 | 14,182 | 55,313 | 18,190 | 23 |
| 12,242 | . | 1,180 | 87 | 70,166 | 1,392 | 25,003 | 21,017 | 10,886 | 1,11,641 | 2,70,105 | 1,29,639 | 24 |
| 2,669 | ... | .. | 20 | 8,135 | 884 | 3,090 | 1,715 | 7,135 | 8,533 | 33,204 | 10,010 | 25 |
| 9,278 | .. | | 213 | 50,947 | 1,259 | 19,227 | 32,552 | 12,207 | 61,553 | 1,96,745 | 38,984 | 26 |
| 2,746 | . | . | 82 | 10,583 | 507 | 778 | 1,496 | 7,807 | 19,936 | 44,257 | 19,569 | 27 |
| 3,657 | .. | 51 | 74 | 15,496 | 1,079 | 6,611 | 8,117 | 10,391 | 12,512 | 54,539 | 15,262 | 28 |
| 754 | . | 78 | 220 | 18,376 | 602 | 12,097 | 11,863 | 11,810 | 24,349 | 79,097 | 31,162 | 29 |
| 367 | .. | .. | 142 | 13,833 | 1,228 | 6,726 | 9,306 | 17,674 | 35,895 | 84,667 | 42,150 | 30 |
| 115 | ... | 150 | ... | 5,514 | 240 | 6,594 | 2,508 | 7,691 | 6,254 | 28,801 | 23,799 | 31 |
| 1,65,799 | 115 | 22,371 | 6,551 | 11,25,100 | 27,681 | 3,95,844 | 5,64,933 | 5,95,047 | 16,02,846 | 43,11,451 | 12,20,680 | |

closing balance of the Pakpattan Municipality last year.
the exclusion of Rām Dās notified area from the returns of this year.

APPENDIX C.

STATEMENT SHOWING THE RAINFALL IN INCHES AT THE SAID STATIONS OF THE PUNJAB DURING THE YEAR 1908

| No. | STATIONS | MONTHS. | | | | | | | | | | | | QUARTERS. | | | | Total. | No. | |
|-----|---------------------|---------|----------|-------|-------|------|-------|-------|--------|-----------|---------|----------|----------|-----------|--------------|--------------|--------------|--------|--------|--------------|
| | | MONTHS. | | | | | | | | | | | | QUARTERS. | | | | | | |
| | | January | February | March | April | May | June | July | August | September | October | November | December | Total | 1st Quarter. | 2nd Quarter. | 3rd Quarter. | | | 4th Quarter. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 1 | Hissar ... | 0.03 | 1.48 | .. | .. | 2.01 | 2.15 | 3.87 | 0.24 | 0.69 | .. | .. | 1.01 | 11.18 | 1.51 | 4.16 | 4.80 | 1.01 | 11.48 | 1 |
| 2 | Rohatk .. | .. | 2.11 | .. | .. | 0.39 | 4.10 | 7.16 | 2.08 | 1.79 | .. | .. | 0.82 | 19.93 | 2.11 | 6.68 | 11.03 | 0.82 | 19.93 | 2 |
| 3 | Gurgaon .. | .. | 2.86 | .. | .. | 0.60 | 0.50 | 5.96 | 5.78 | 1.01 | .. | 0.31 | 0.83 | 17.85 | 2.86 | 1.70 | 12.75 | 0.56 | 15.02 | 3 |
| 4 | Delhi ... | .. | 5.94 | .. | .. | 0.30 | 3.93 | 6.58 | 2.30 | 2.33 | .. | 0.95 | 1.23 | 23.46 | 5.94 | 1.13 | 11.21 | 1.14 | 17.86 | 4 |
| 5 | Karnal .. | .. | 9.10 | 0.02 | .. | 0.39 | 3.89 | 7.79 | 5.76 | 3.73 | .. | .. | 1.39 | 31.77 | 9.17 | 4.12 | 17.09 | 2.18 | 23.46 | 5 |
| 6 | Umballa .. | 0.05 | 5.20 | 0.11 | 0.89 | 1.21 | 9.01 | 10.14 | 18.77 | 2.72 | .. | 0.13 | 3.69 | 52.36 | 6.10 | 11.11 | 31.93 | 3.22 | 52.36 | 6 |
| 7 | Simla ... | 0.79 | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | 7 |
| 8 | Dharnasla .. | 1.30 | 9.29 | 0.35 | .. | 1.94 | 13.06 | 46.80 | 39.21 | 5.93 | 0.31 | .. | 6.50 | 124.69 | 10.94 | 15.00 | 91.91 | 6.81 | 124.69 | 8 |
| 9 | Hoshiarpur .. | 0.42 | 5.50 | .. | .. | 2.21 | 14.97 | 8.02 | 8.02 | 5.65 | .. | .. | 4.59 | 41.36 | 5.92 | 2.21 | 28.64 | 4.59 | 41.36 | 9 |
| 10 | Jullundur .. | 0.54 | 3.65 | .. | .. | 0.07 | 3.48 | 7.87 | 3.12 | 2.33 | .. | .. | 1.48 | 22.51 | 1.19 | 3.55 | 13.32 | 1.48 | 22.51 | 10 |
| 11 | Ludhiana .. | 0.55 | 3.39 | .. | .. | 0.13 | 2.12 | 12.22 | 1.40 | 2.62 | .. | .. | 1.81 | 24.34 | 1.14 | 2.25 | 16.14 | 1.81 | 24.34 | 11 |
| 12 | Ferozepore .. | 0.58 | 3.66 | .. | .. | 0.88 | 2.23 | 8.21 | 1.65 | 1.65 | .. | .. | 0.52 | 17.76 | 4.21 | 3.11 | 9.89 | 0.52 | 17.76 | 12 |
| 13 | Moolkan .. | 0.15 | 1.25 | .. | .. | 0.08 | 0.14 | 1.48 | .. | 0.42 | .. | .. | 0.01 | 3.53 | 1.40 | 0.22 | 1.90 | 0.01 | 3.53 | 13 |
| 14 | Jhang ... | .. | 1.17 | .. | .. | 0.24 | 0.67 | 2.25 | .. | 0.65 | .. | .. | 0.05 | 5.63 | 1.17 | 0.91 | 2.90 | 0.05 | 5.63 | 14 |
| 15 | Montgomery .. | 0.29 | 0.86 | .. | .. | 0.63 | 1.60 | 1.60 | .. | 1.32 | .. | .. | 0.51 | 5.21 | 1.15 | 0.63 | 2.92 | 0.51 | 5.21 | 15 |
| 16 | Lehore ... | 0.07 | 4.32 | .. | .. | 0.87 | 1.02 | 9.32 | 0.94 | 0.61 | .. | .. | 0.51 | 17.69 | 1.39 | 1.89 | 10.87 | 0.51 | 17.69 | 16 |
| 17 | Amritsar .. | 0.13 | 5.69 | .. | .. | 0.85 | 1.90 | 9.32 | 1.70 | 1.10 | .. | .. | 0.77 | 21.46 | 5.82 | 3.75 | 12.13 | 0.77 | 21.46 | 17 |
| 18 | Gurdaspur .. | 0.21 | 6.48 | .. | .. | 1.73 | 4.69 | 10.88 | 5.91 | 7.96 | .. | .. | 1.13 | 39.29 | 6.69 | 6.42 | 21.75 | 1.13 | 39.29 | 18 |
| 19 | Sialkot ... | 0.43 | 4.91 | .. | 0.03 | 1.09 | 1.62 | 13.56 | 4.47 | 5.65 | .. | .. | 0.51 | 31.27 | 5.34 | 2.74 | 22.08 | 0.51 | 31.27 | 19 |
| 20 | Gujrat ... | 0.32 | 4.93 | .. | .. | 1.35 | 0.10 | 8.84 | 4.40 | 2.98 | .. | .. | 0.56 | 23.48 | 5.25 | 1.45 | 16.22 | 0.56 | 23.48 | 20 |
| 21 | Gujranwala .. | .. | 3.95 | .. | .. | 1.61 | 1.00 | 9.68 | 2.47 | 2.83 | .. | .. | 0.50 | 22.04 | 3.95 | 2.61 | 14.98 | 0.50 | 22.04 | 21 |
| 22 | Shahpur ... | 0.65 | 2.10 | .. | .. | 2.15 | 2.00 | 5.95 | 0.15 | 1.25 | .. | .. | .. | 14.25 | 3.75 | 4.15 | 7.35 | .. | 14.25 | 22 |
| 23 | Jhelum ... | 1.62 | 3.84 | 0.20 | .. | 1.16 | 0.23 | 9.15 | 7.34 | 3.85 | .. | .. | 0.22 | 27.61 | 5.66 | 1.39 | 20.31 | 0.22 | 27.61 | 23 |
| 24 | Rawalpindi .. | 1.40 | 3.04 | 0.57 | .. | 1.13 | 0.30 | 8.41 | 4.30 | 8.87 | .. | .. | 0.87 | 28.89 | 5.01 | 1.43 | 21.58 | 0.87 | 28.89 | 24 |
| 25 | Abbottabad .. | 2.28 | 5.71 | 3.90 | 2.02 | 3.70 | 3.94 | 9.82 | 9.98 | 6.57 | .. | .. | 1.48 | 49.40 | 11.80 | 9.66 | 26.37 | 1.48 | 49.40 | 25 |
| 26 | Peshawar .. | 0.68 | 2.31 | 2.11 | 0.19 | 1.23 | 0.06 | 4.27 | 0.32 | 1.06 | .. | .. | 0.37 | 11.95 | 4.45 | 1.48 | 5.65 | 0.37 | 11.95 | 26 |
| 27 | Kohat ... | 0.10 | 3.15 | 1.56 | .. | 2.04 | 0.43 | 2.28 | 2.85 | 1.27 | .. | .. | 0.61 | 14.29 | 4.81 | 2.47 | 6.40 | 0.61 | 14.29 | 27 |
| 28 | Banna ... | 0.04 | 2.40 | 1.17 | 0.11 | 0.79 | 0.07 | 6.73 | .. | 0.33 | .. | .. | 0.07 | 11.71 | 3.61 | 0.97 | 7.06 | 0.07 | 11.71 | 28 |
| 29 | Dera Ismail Khan .. | .. | 4.72 | 0.09 | .. | 0.39 | .. | 0.49 | .. | 0.36 | .. | .. | 0.45 | 6.50 | 0.81 | 0.39 | 0.85 | 0.45 | 6.50 | 29 |
| 30 | Dera Ghazi Khan .. | .. | 0.80 | .. | .. | 0.53 | 0.12 | 2.41 | .. | 3.67 | .. | .. | .. | 7.53 | 0.80 | 0.65 | 6.08 | .. | 7.53 | 30 |
| 31 | Muzaffargarh .. | 0.07 | 1.85 | .. | .. | .. | .. | 2.13 | .. | 1.05 | .. | .. | .. | 4.60 | 1.42 | .. | 3.18 | .. | 4.60 | 31 |
| | MEAN | 0.39 | 3.77 | 0.33 | 0.11 | 1.03 | 2.19 | 8.17 | 4.39 | 2.67 | 0.01 | 0.04 | 1.06 | 24.14 | 4.48 | 3.33 | 15.22 | 1.11 | 24.14 | |

APPENDIX D.

LAWRENCE MILITARY ASYLUM AT SANDHAR.

No. 1.—Table showing the sickness and mortality among the children of the above Asylum during the year 1898.

| MONTHS. | | | | | | | Average strength | | Average number daily sick. | | Number daily sick per cent. of strength. | | Number of deaths. | | Fied per 1,000 of strength. | | CAUSE OF DEATH. | |
|------------------|-----|-----|-----|-----|-----|-----|------------------|--------|----------------------------|--------|--|--------|-------------------|--------|-----------------------------|--------|-----------------|--------|
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | Boys. | Girls. | Boys. | Girls. | Boys. | Girls. | Boys. | Girls. | Boys. | Girls. | Boys. | Girls. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| January ... | ... | ... | ... | ... | ... | ... | 231 | 179 | 0.86 | 0.11 | 0.37 | 0.06 | ... | ... | ... | ... | ... | ... |
| February ... | ... | ... | ... | ... | ... | ... | 208 | 209 | 3.65 | 3.29 | 1.37 | 1.57 | ... | ... | ... | ... | ... | ... |
| March ... | ... | ... | ... | ... | ... | ... | 288 | 211 | 1.20 | 4.51 | 1.46 | 2.11 | ... | ... | ... | ... | ... | ... |
| April ... | ... | ... | ... | ... | ... | ... | 293 | 212 | 4.53 | 3.09 | 1.55 | 1.46 | ... | ... | ... | ... | ... | ... |
| May ... | ... | ... | ... | ... | ... | ... | 292 | 209 | 4.67 | 2.96 | 1.60 | 1.43 | ... | ... | ... | ... | ... | ... |
| June ... | ... | ... | ... | ... | ... | ... | 290 | 209 | 4.45 | 0.96 | 1.53 | 0.46 | ... | ... | ... | ... | ... | ... |
| July ... | ... | ... | ... | ... | ... | ... | 287 | 212 | 8.21 | 0.29 | 2.86 | 2.07 | ... | ... | ... | ... | ... | ... |
| August ... | ... | ... | ... | ... | ... | ... | 283 | 211 | 12.14 | 17.03 | 4.21 | 7.96 | 1 | ... | 0.56 | ... | 1 | ... |
| September ... | ... | ... | ... | ... | ... | ... | 282 | 219 | 9.68 | 10.25 | 3.42 | 4.68 | ... | ... | ... | ... | ... | ... |
| October ... | ... | ... | ... | ... | ... | ... | 282 | 219 | 2.18 | 0.50 | 0.77 | 0.23 | ... | ... | ... | ... | ... | ... |
| November ... | ... | ... | ... | ... | ... | ... | 288 | 216 | 0.57 | 1.83 | 0.20 | 0.85 | ... | ... | ... | ... | ... | ... |
| December ... | ... | ... | ... | ... | ... | ... | 197 | 157 | 2.11 | 1.77 | 1.07 | 1.13 | ... | ... | ... | ... | ... | ... |
| For the year ... | ... | ... | ... | ... | ... | ... | 273.42 | 205.75 | 4.77 | 4.39 | 1.74 | 2.13 | 1 | ... | 3.66 | ... | 1 | ... |

Distribution of Children according to age on 1st July 1898.

| SEX. | | | | | | 2 and under 5 years. | 5—10. | 10—15 | 15—20 | Total of all ages. |
|-------|-----|-----|-----|-----|-----|----------------------|-------|-------|-------|--------------------|
| Boys | ... | ... | ... | ... | ... | 5 | 104 | 134 | 51 | 294 |
| Girls | ... | ... | ... | ... | ... | 2 | 62 | 103 | 48 | 215 |
| TOTAL | ... | ... | ... | ... | ... | 7 | 166 | 237 | 99 | 509 |

APPENDIX D—concluded.

No. II.—Table showing the causes of admissions into Hospital among the children of the Lawrence Military Asylum at Sanawar during the year 1893.

[illegible]

Admitted per cent. of the average strength in each month.

APPENDIX E.

LAWRENCE MEMORIAL ASYLUM AT MURREE

No. I.—Table showing the sickness and mortality among the children of the above Asylum during the year 1898.

| MONTHS. | Average strength. | | Average number daily sick. | | Number daily sick per cent. of strength. | | Number of deaths. | | Died per 1,000 of strength. | | Cause of death. | |
|---------------------|-------------------|--------|----------------------------|--------|--|--------|-------------------|--------|-----------------------------|--------|-----------------|--------|
| | Boys. | Girls. | Boys. | Girls. | Boys. | Girls. | Boys. | Girls. | Boys. | Girls. | Boys. | Girls. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| January | 41.35 | 35.83 | . | 0.06 | ... | 0.17 | .. | ... | ... | ... | ... | ... |
| February | 66.67 | 56.00 | 0.11 | 0.01 | 0.16 | 0.07 | ... | . | ... | .. | ... | ... |
| March | 60.35 | 63.74 | 0.06 | 0.03 | 0.09 | 0.05 | ... | ... | ... | ... | ... | ... |
| April | 76.23 | 66.20 | 0.07 | 0.20 | 0.09 | 0.30 | ... | ... | ... | ... | ... | ... |
| May | 73.41 | 67.82 | ... | ... | ... | .. | ... | ... | ... | ... | ... | .. |
| June | 74.30 | 71.53 | 0.07 | 0.50 | 0.09 | 0.70 | ... | . | ... | ... | ... | .. |
| July | 75.00 | 73.00 | ... | .. | ... | ... | ... | ... | ... | ... | ... | ... |
| August | 75.35 | 73.00 | 0.10 | .. | 0.13 | ... | .. | ... | ... | ... | ... | . |
| September | 74.53 | 74.40 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| October | 72.03 | 75.58 | 0.03 | 0.10 | 0.08 | 0.13 | . | .. | . | ... | ... | ... |
| November | 72.00 | 76.00 | 0.13 | ... | 0.18 | ... | ... | ... | .. | ... | ... | ... |
| December | 45.10 | 45.03 | .. | 0.03 | ... | 0.07 | ... | ... | ... | ... | ... | ... |
| For the year | 67.95 | 64.87 | 0.50 | 0.80 | 0.68 | 0.12 | .. | ... | ... | ... | ... | ... |

Distribution of children according to age on 1st July 1898.

| Sex. | 2 and 5 years. | 5—10. | 10—15 | 15—20. | Total of all ages. |
|--------------|----------------|-------|-------|--------|--------------------|
| Boys | ... | 28 | 34 | 15 | 75 |
| Girls | ... | 28 | 33 | 12 | 73 |
| Total | ... | 54 | 67 | 27 | 148 |

APPENDIX E—continued.

No. 11.—Table showing the causes of admissions into Hospital among the children of the Lawrence Memorial Asylum at Marine during the year 1893.

| CAUSES OF ADMISSIONS. | NUMBER IN EACH MONTH. | | | | | | | | | | | | | | | | | | | | | | | | TOTAL ADMISSIONS DURING THE YEAR. | | ADMITTED PER CENT. OF STRENGTH. | | DIED PER CENT. OF ADMISSIONS. | |
|-----------------------------------|-----------------------|--------|-----------|--------|--------|--------|--------|--------|-------|--------|-------|--------|-------|--------|---------|--------|------------|--------|----------|--------|-----------|--------|-----------|--------|-----------------------------------|--------|---------------------------------|--------|-------------------------------|-----|
| | January. | | February. | | March. | | April. | | May. | | June. | | July. | | August. | | September. | | October. | | November. | | December. | | | | | | | |
| | Boys. | Girls. | Boys. | Girls. | Boys. | Girls. | Boys. | Girls. | Boys. | Girls. | Boys. | Girls. | Boys. | Girls. | Boys. | Girls. | Boys. | Girls. | Boys. | Girls. | Boys. | Girls. | Boys. | Girls. | Boys. | Girls. | Boys. | Girls. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| Small-pox | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Chicken-pox | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Measles | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Enteric fever | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Simple continued fever | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Intermittent and remittent fevers | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Malignant cholera | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Diphtheria | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Whooping cough | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Mumps | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Acute rheumatism | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Phthisis pulmonalis | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Meningitis | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Stroke | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Epilepsy | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Conjunctivitis | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Valvular disease of heart | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Croup | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Bronchitis | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Pneumonia | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Dysentery | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Diarrhea | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Abscess and ulcer | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Itch | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Wounds | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| All other causes | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Total | 2 | 3 | 1 | 1 | 2 | 1 | 2 | 6 | ... | ... | 2 | 15 | ... | ... | 3 | ... | ... | ... | 2 | 3 | 4 | ... | ... | 1 | 18 | 29 | 26 | 49 | 41 | 70 |

Admitted per cent. of average strength in each month.

APPENDIX F.

STATEMENT SHOWING THE RATES OF PRINCIPAL ARTICLES OF DIET, RAINFALL, AND DEATH-RATES BY QUARTERS DURING THE YEAR 1898.

| No. | Districts. | Wheat. | | | | Rice. | | | | Grain. | | | | Rainfall in inches. | | | | Deaths-Rates per mille. | | | | | |
|---|---------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------------|--------------|--------------|--------------|-------------------------|--------------|--------------|--------------|-----|-----|
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1st quarter. | 2nd quarter. | 3rd quarter. | 4th quarter. | 1st quarter. | 2nd quarter. | 3rd quarter. | 4th quarter. | 1st quarter. | 2nd quarter. | 3rd quarter. | 4th quarter. | 1st quarter. | 2nd quarter. | 3rd quarter. | 4th quarter. | 1st quarter. | 2nd quarter. | 3rd quarter. | 4th quarter. | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | |
| 1 | Hissar .. | 11 | 12 | 13 | 14 | 10 | 10 | 10 | 8 | 12 | 14 | 21 | 24 | 24 | 151 | 4.16 | 4.80 | 1.01 | 24 | 26 | 28 | 32 | 33 |
| 2 | Rohtak .. | 11 | 14 | 16 | 16 | 9 | 10 | 10 | 10 | 14 | 20 | 20 | 21 | 21 | 150 | 6.68 | 11.03 | 0.82 | 23 | 30 | 27 | 36 | 40 |
| 3 | Gurgaon .. | 12 | 15 | 16 | 16 | 8 | 7 | 8 | 8 | 13 | 19 | 19 | 19 | 20 | 211 | 3.52 | 8.83 | 0.56 | 29 | 40 | 37 | 31 | 38 |
| 4 | Delhi .. | 11 | 12 | 15 | 15 | 8 | 8 | 8 | 8 | 12 | 19 | 20 | 20 | 20 | 286 | 1.10 | 12.75 | 1.11 | 26 | 37 | 31 | 38 | 41 |
| 5 | Karnal .. | 11 | 13 | 14 | 14 | 12 | 11 | 11 | 10 | 11 | 19 | 21 | 21 | 22 | 5.94 | 1.13 | 11.21 | 2.18 | 30 | 42 | 39 | 41 | 45 |
| 6 | Unbala .. | 11 | 15 | 17 | 17 | 11 | 12 | 7 | 12 | 12 | 21 | 21 | 22 | 22 | 9.17 | 1.12 | 17.09 | 1.39 | 26 | 32 | 29 | 35 | 35 |
| 7 | Simla .. | 11 | 11 | 11 | 12 | 7 | 6 | 7 | 8 | 10 | 11 | 13 | 13 | 13 | 6.10 | 11.11 | 31.93 | 3.22 | 19 | 23 | 24 | 21 | 21 |
| 8 | Kangra .. | 14 | 15 | 16 | 16 | 11 | 11 | 11 | 14 | 11 | 13 | 17 | 17 | 20 | 10.91 | 15.00 | 91.91 | 6.81 | 25 | 33 | 31 | 31 | 31 |
| 9 | Hoshiarpur .. | 13 | 16 | 18 | 19 | 9 | 9 | 10 | 10 | 13 | 20 | 25 | 25 | 25 | 7.92 | 2.21 | 28.04 | 4.39 | 27 | 29 | 29 | 31 | 31 |
| 10 | Jullundur .. | 14 | 17 | 19 | 19 | 8 | 9 | 12 | 12 | 14 | 21 | 23 | 23 | 23 | 1.19 | 3.55 | 13.32 | 1.18 | 27 | 31 | 29 | 29 | 35 |
| 11 | Ludhiana .. | 13 | 17 | 19 | 19 | 10 | 10 | 10 | 11 | 12 | 16 | 20 | 20 | 20 | 1.11 | 2.25 | 16.11 | 1.81 | 28 | 33 | 31 | 31 | 36 |
| 12 | Ferozepore .. | 12 | 16 | 17 | 17 | 7 | 7 | 8 | 9 | 13 | 19 | 22 | 23 | 23 | 1.21 | 3.11 | 9.89 | 0.52 | 25 | 30 | 26 | 26 | 35 |
| 13 | Moollan .. | 12 | 14 | 16 | 16 | 12 | 13 | 13 | 15 | 13 | 19 | 20 | 20 | 20 | 1.10 | 0.22 | 1.90 | 0.01 | 31 | 26 | 20 | 31 | 31 |
| 14 | Jhang .. | 13 | 18 | 22 | 22 | 8 | 10 | 10 | 11 | 12 | 17 | 19 | 19 | 20 | 1.17 | 0.91 | 2.90 | 0.05 | 12 | 31 | 32 | 32 | 32 |
| 15 | Montgomery .. | 13 | 15 | 17 | 17 | 10 | 12 | 13 | 13 | 16 | 19 | 22 | 22 | 23 | 1.15 | 0.63 | 2.92 | 0.51 | 24 | 21 | 17 | 17 | 15 |
| 16 | Lahore .. | 13 | 16 | 19 | 19 | 10 | 10 | 10 | 10 | 13 | 19 | 22 | 22 | 23 | 1.39 | 1.89 | 10.87 | 0.51 | 25 | 30 | 32 | 32 | 32 |
| 17 | Amritsar .. | 13 | 16 | 18 | 18 | 9 | 9 | 9 | 10 | 13 | 20 | 23 | 23 | 22 | 5.82 | 2.75 | 12.12 | 0.77 | 25 | 33 | 35 | 35 | 42 |
| 18 | Gurdaspur .. | 13 | 16 | 19 | 19 | 8 | 9 | 10 | 10 | 13 | 20 | 21 | 21 | 21 | 6.69 | 6.12 | 21.75 | 1.13 | 23 | 29 | 35 | 35 | 44 |
| 19 | Sialkot .. | 12 | 14 | 17 | 18 | 7 | 8 | 9 | 12 | 11 | 12 | 16 | 16 | 16 | 5.31 | 2.74 | 22.68 | 0.51 | 23 | 30 | 36 | 36 | 44 |
| 20 | Gujrat .. | 12 | 13 | 16 | 16 | 8 | 10 | 11 | 11 | 12 | 13 | 20 | 20 | 20 | 5.25 | 1.45 | 16.22 | 0.56 | 21 | 23 | 30 | 36 | 40 |
| 21 | Gujranwala .. | 13 | 14 | 18 | 18 | 9 | 10 | 10 | 10 | 14 | 19 | 21 | 22 | 22 | 3.95 | 2.61 | 11.98 | 0.50 | 20 | 26 | 37 | 37 | 44 |
| 22 | Shahpur... | 13 | 18 | 25 | 20 | 6 | 7 | 7 | 7 | 13 | 24 | 25 | 25 | 24 | 2.75 | 4.15 | 7.35 | ... | 30 | 25 | 23 | 30 | 22 |
| 23 | Jhelum .. | 15 | 17 | 22 | 22 | 8 | 9 | 9 | 9 | 13 | 19 | 21 | 21 | 21 | 5.06 | 1.39 | 20.34 | 0.22 | 31 | 24 | 26 | 38 | 23 |
| 24 | Rawalpindi .. | 14 | 16 | 16 | 17 | 7 | 8 | 8 | 9 | 13 | 19 | 19 | 19 | 19 | 5.01 | 1.43 | 21.58 | 0.87 | 33 | 24 | 26 | 11 | 24 |
| 25 | Hazara .. | 13 | 15 | 18 | 18 | 9 | 9 | 9 | 10 | 12 | 10 | 11 | 11 | 15 | 11.89 | 9.66 | 26.37 | 1.18 | 21 | 18 | 20 | 24 | 25 |
| 26 | Peshawar .. | 13 | 17 | 17 | 17 | 8 | 9 | 9 | 9 | 12 | 16 | 17 | 17 | 18 | 1.45 | 5.65 | 5.65 | 0.37 | 25 | 21 | 21 | 24 | 26 |
| 27 | Kohat .. | 12 | 12 | 15 | 19 | 9 | 9 | 9 | 9 | 13 | 13 | 16 | 16 | 28 | 4.81 | 2.17 | 6.40 | 0.61 | 41 | 21 | 22 | 38 | 27 |
| 28 | Bannu .. | 16 | 19 | 24 | 22 | 7 | 8 | 6 | 7 | 14 | 24 | 25 | 25 | 26 | 3.61 | 0.97 | 7.06 | 0.07 | 49 | 27 | 22 | 33 | 28 |
| 29 | Dera Ismail Khan .. | 14 | 17 | 18 | 18 | 6 | 7 | 7 | 7 | 15 | 21 | 21 | 21 | 23 | 4.81 | 0.39 | 0.85 | 0.45 | 57 | 38 | 23 | 42 | 20 |
| 30 | Dera Ghazi Khan .. | 14 | 16 | 17 | 17 | 10 | 12 | 16 | 14 | 12 | 16 | 18 | 18 | 19 | 0.80 | 0.65 | 6.08 | ... | 33 | 31 | 20 | 25 | 30 |
| 31 | Muzaffargarh .. | 13 | 15 | 17 | 18 | 11 | 14 | 15 | 15 | 12 | 16 | 18 | 18 | 19 | 1.12 | ... | 3.18 | ... | 40 | 28 | 20 | 35 | 31 |
| Average | Average | 13 | 15 | 17 | 18 | 9 | 9 | 10 | 11 | 13 | 18 | 20 | 21 | 21 | 1.18 | 3.33 | 15.22 | 1.11 | 26 | 30 | 29 | 37 | ... |
| Average rainfall for previous 10 years. | | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 4.63 | 4.23 | 17.75 | 1.16 | ... | ... | ... | ... | ... |

APPENDIX G.

STATEMENT SHOWING THE NUMBER OF WELLS CLEANED AND THE NUMBER OF PARAPETS CONSTRUCTED DURING 1898.

| No. | Names of Districts. | Number of wells cleaned. | Number of parapets constructed. | Amount spent. | Remarks. |
|--------------|-------------------------|--------------------------|---------------------------------|---------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 |
| | | | | Rs. | |
| 1 | Hissár | 22 | 6 | ... | |
| 2 | Rohtak | 68 | 7 | ... | |
| 3 | Gurgaon | 46 | 1 | ... | A contribution of Rs. 50 was made from District Funds towards the construction of a <i>pacca</i> well for the benefit of the public. |
| 4 | Delhi | 11 | 6 | 176 | A contribution of Rs. 39 was also paid from District Funds to a Brahman for constructing a well on a village road. |
| 5 | Karnál | 2 | ... | ... | |
| 6 | Umballa | 4 | 3 | ... | |
| 7 | Jallundar | 31 | 14 | ... | |
| 8 | Ferozepore | 42 | 14 | ... | |
| 9 | Mooltan | 135 | ... | ... | |
| 10 | Jhang | 638 | ... | ... | |
| 11 | Montgomery | 13 | ... | ... | |
| 12 | Gurdáspur | 47 | 25 | 587 | Mr. J. M. Donie, Deputy Commissioner, says that this year the Public Works Department grant was usually low (Rs. 25,369), but next year we might be able to provide funds for protecting wells. |
| 13 | Siálkot | 356 | ... | ... | 36 wells were repaired also. |
| 14 | Gujránwála | 456 | ... | 2,099 | 36 wells were repaired. The Deputy Commissioner says that no special provision is made for platforms or parapets, and charges on this account are met by transfer from other heads of the account. |
| 15 | Jhelum | 3 | ... | ... | |
| 16 | Ráwalpindi | ... | ... | 2,012 | The District Board spent a total sum of Rs. 2,012 on improving wells and other sources of water supply in the district during the year under report. |
| 17 | Hazára | ... | ... | ... | The Deputy Commissioner says that the wells in this district, which were used for drinking purposes, chiefly in the Haripur tahsil, were cleaned as usual by the villagers. |
| 18 | Pesháwar | ... | ... | 434 | The Deputy Commissioner says that the sum of Rs. 434 was defrayed from the District Fund for cleaning wells. |
| 19 | Kobát | ... | ... | 1,744 | Mr. L. White King, Deputy Commissioner, says that there are two underground <i>karez</i> s which pass through a part of the city, and the people use them for washing, bathing and occasionally for drinking purposes. The opening of these <i>karez</i> s were made <i>pacca</i> during the year at a cost of Rs. 1,292 so as to prevent the pollution of the water by filth and dirty rain-water to which they were previously exposed. These <i>karez</i> s were also cleaned out at a cost of Rs. 452 during the year. |
| 20 | Dera Ismail Khan | ... | ... | ... | Mr. A. H. Grant, Deputy Commissioner, says that no funds were available this year, but the matter will be kept in view in 1899. Efforts are being made to have <i>pacca</i> platforms round the drinking wells. |
| 21 | Muzaffargarh | 34 | 2 | ... | |
| Total | | 1,908 | 78 | 7,052 | |

